

## ASAHI KASEI CORP

KANDA-MITSUI BLDG, 1-105 KANDA JINBOCHO, CHIYODA-KU TOKYO 101-8101 JP



Tenac: 3010

Page 1 of 2

Acetal "Polyoxymethylene" (POM), pellets

Flame Rating	Flammability	Value	Test Method
1.5 mm, ALL       HB         3.0 mm, ALL       HB         6.0 mm, ALL       HB         Flammability Classification       IEC 60695-11-10, -20         3.0 mm, ALL       HB40         6.0 mm, ALL       HB40         1.5 mm, ALL       HB75         Electrical       Value       Test Method         Hot-wire Ignition (HWI)       UL 746         1.5 mm       PLC 4         3.0 mm       PLC 4         High Amp Are Ignition (HAI)       UL 746         1.5 mm       PLC 0         3.0 mm       PLC 0         6.0 mm       PLC 0         9.0 mm       PLC 0         1.5 mm       PLC 0         3.0 mm       PLC 0         6.0 mm       PLC 0         U. 746       UL 746         Dielectric Strength Tacking Index (CTI)       PLC 0       UL 746         Volume Resistivity       1.0E+11 ohms-cm       ASTM D149         High Voltage Arc Tracking Rate (HVTR)       1.0E+11 ohms-cm       EC 60093         Arc Resistance       PLC 4       ASTM D495         Electric Strength       2 kW/mm       IEC 60043-1         Thermal       105 °C       UL 746         1.5 mm		raido	
3.0 mm, ALL         HB         HB           6.0 mm, ALL         HB         HB           Flammability Classification         IEC 60695-11-10, -20           3.0 mm, ALL         HB40         6.0 mm, ALL           6.0 mm, ALL         HB75         Feetical           1.5 mm, ALL         HB75         UL 746           Fleedrical         Value         Test Method           1.5 mm         PLC 4         4           3.0 mm         PLC 4         4           6.0 mm         PLC 4         4           1.5 mm         PLC 0         UL 746           1.5 mm         PLC 0         UL 746           3.0 mm         PLC 0         UL 746           1.5 mm         PLC 0         UL 746           3.0 mm         PLC 0         UL 746           0.0 mm         PLC 0         UL 746           1.6 mm         ASTM D495         PLC 0           1.6 mm         ASTM D495         PLC 0         UL 746           1.6 mm         ASTM D495         PLC 4         ASTM D495           1.6 mm         ASTM D495         PLC 4         ASTM D495           1.6 mm         ASTM D495         PLC 4         ASTM D495		HB	<b>32 3</b> .
6.0 mm, ALL			
Flammability Classification   IEC 60695-11-10, -20   3.0 mm, ALL   HB40   HB40   1.5 mm, ALL   HB40   HB40   1.5 mm, ALL   HB75   HB40   HB4			
3.0 mm, ALL 6.0 mm, ALL 1.5 mm, ALL HB40 1.5 mm AL HB75  Electrical Value Test Method  Hot-wire Ignition (HWI)  1.5 mm PLC 4 3.0 mm PLC 4 6.0 mm PLC 4 6.0 mm PLC 0 6.0 mm PLC 0 1.5 mm PLC 0 6.0 mm PLC 0 0.0 mm PL	·	115	IFC 60695-11-10 -20
6.0 mm, ALL 1,5 mm, ALL HB40 1,5 mm, ALL HB75 5  Electrical Value rest Method  Hot-wire Ignition (HWI)		HR40	120 00000 11 10, 20
1.5 mm, ALL         HB75           Electrical         Value         Test Method           Hot-wire Ignition (HWI)         UL 746           1.5 mm         PLC 4           3.0 mm         PLC 4           6.0 mm         PLC 4           High Amp Arc Ignition (HAI)         UL 746           1.5 mm         PLC 0           3.0 mm         PLC 0           6.0 mm         PLC 0         UL 746           Comparative Tracking Index (CTI)         PLC 0         UL 746           Dielectric Strength         26kV/mm         ASTM D149           High Voltage Arc Tracking Rate (HVTR)         PLC 0         UL 746           Volume Resistivity         1.0E+11 ohms-cm         ASTM D257           Volume Resistivity         1.0E+11 ohms-cm         IEC 60093           Arc Resistance         PLC 4         ASTM D495           Electric Strength         26 kV/mm         IEC 600243-1           Thermal         Value         Test Method           RTI Elec         UL 746           1.5 mm         105 °C         UL 746           3.0 mm         90.0 °C         UL 746           FT Is mm         90.0 °C         UL 746           1.5 mm         90.0 °C <td></td> <td></td> <td></td>			
Electrical         Value         Test Method           Hot-wire Ignition (HWI)         UL 746           1.5 mm         PLC 4           3.0 mm         PLC 4           6.0 mm         PLC 0           1.5 mm         PLC 0           3.0 mm         PLC 0           6.0 mm         PLC 0           Comparative Tracking Index (CTI)         PLC 0         UL 746           Dielectric Strength         26 kV/mm         ASTM D149           High Voltage Arc Tracking Rate (HVTR)         PLC 0         UL 746           Volume Resistivity         1.0E+11 ohms-cm         ASTM D257           Volume Resistivity         1.0E+11 ohms-cm         IEC 60093           Arc Resistance         PLC 4         ASTM D496           Electric Strength         26 kV/mm         IEC 600243-1           Thermal         Value         Test Method           RTI Elec         UL 746           1.5 mm         105 °C           3.0 mm         105 °C           6.0 mm         90.0 °C           6.0 mm         90.0 °C           7.5 mm         85.0 °C           8.0 mm         85.0 °C           8.0 mm         85.0 °C           8.0 mm			
Hot-wire Ignition (HWI)			Test Method
1.5 mm       PLC 4         3.0 mm       PLC 4         6.0 mm       PLC 4         High Amp Arc Ignition (HAI)       UL 746         1.5 mm       PLC 0         3.0 mm       PLC 0         6.0 mm       PLC 0         Comparative Tracking Index (CTI)       PLC 0       UL 746         Dielectric Strength       26 kV/mm       ASTM D149         High Voltage Arc Tracking Rate (HVTR)       PLC 0       UL 746         Volume Resistivity       1.0E+11 ohms cm       ASTM D257         Volume Resistivity       1.0E+11 ohms cm       IEC 60093         Arc Resistance       PLC 4       ASTM D495         Electric Strength       26 kV/mm       IEC 60243-1         Thermal       Value       Test Method         RTI Elec       UL 746         1.5 mm       105 °C         3.0 mm       105 °C         RTI Imp       UL 746         1.5 mm       90.0 °C         3.0 mm       90.0 °C         6.0 mm       90.0 °C         7.5 mm       85.0 °C         3.0 mm       60.0 mm       85.0 °C         3.0 mm       60.0 mm       85.0 °C         6.0 mm       85.0 °C		raido	
3.0 mm		PLC 4	32
6.0 mm         PLC 4           High Amp Arc Ignition (HAI)         UL 746           1.5 mm         PLC 0           3.0 mm         PLC 0           6.0 mm         PLC 0           Comparative Tracking Index (CTI)         PLC 0           Dielectric Strength         26 kV/mm         ASTM D149           High Voltage Arc Tracking Rate (HVTR)         PLC 0         UL 746           Volume Resistivity         1.0E+11 ohms·cm         ASTM D257           Volume Resistivity         1.0E+11 ohms·cm         IEC 60093           Arc Resistance         PLC 4         ASTM D495           Electric Strength         26 kV/mm         IEC 60093           Arc Resistance         PLC 4         ASTM D495           Electric Strength         26 kV/mm         IEC 60243-1           Thermal         Value         Test Method           RTI Elec         UL 746           3.0 mm         105 °C           6.0 mm         105 °C           3.0 mm         90.0 °C           3.0 mm         90.0 °C           RTI Isr         UL 746           1.5 mm         85.0 °C           3.0 mm         85.0 °C           3.0 mm         85.0 °C			
High Amp Arc Ignition (HAI)       PLC 0         1.5 mm       PLC 0         3.0 mm       PLC 0         6.0 mm       PLC 0         Comparative Tracking Index (CTI)       PLC 0       UL 746         Dielectric Strength       26 kV/mm       ASTM D149         High Voltage Arc Tracking Rate (HVTR)       PLC 0       UL 746         Volume Resistivity       1.0E+110 hms·cm       ASTM D257         Volume Resistivity       1.0E+110 hms·cm       IEC 60093         Arc Resistance       PLC 4       ASTM D495         Electric Strength       26 kV/mm       IEC 600243-1         Thermal       105 °C       UL 746         3.0 mm       105 °C       UL 746         1.5 mm       105 °C       UL 746         3.0 mm       90.0 °C       UL 746         1.5 mm       90.0 °C       UL 746         7.5 mm       90.0 °C       UL 746         1.5 mm       85.0 °C <td< td=""><td></td><td></td><td></td></td<>			
1.5 mm       PLC 0         3.0 mm       PLC 0         6.0 mm       PLC 0         Comparative Tracking Index (CTI)       PLC 0       UL 746         Dielectric Strength       26 kV/mm       ASTM D149         High Voltage Arc Tracking Rate (HVTR)       PLC 0       UL 746         Volume Resistivity       1.0E+11 ohms·cm       ASTM D257         Volume Resistivity       1.0E+11 ohms·cm       IEC 60093         Arc Resistance       PLC 4       ASTM D495         Electric Strength       26 kV/mm       IEC 60243-1         Thermal       Value       Test Method         RTI Elec       UL 746         1.5 mm       105 °C         3.0 mm       105 °C         6.0 mm       90.0 °C         3.0 mm       90.0 °C         3.0 mm       90.0 °C         RTI Istr       UL 746         1.5 mm       85.0 °C         3.0 mm       7 </td <td></td> <td></td> <td>UL 746</td>			UL 746
3.0 mm       PLC 0         6.0 mm       PLC 0         Comparative Tracking Index (CTI)       PLC 0       UL 746         Dielectric Strength       26 kW/mm       ASTM D149         High Voltage Arc Tracking Rate (HVTR)       PLC 0       UL 746         Volume Resistivity       1.0E+11 ohms·cm       ASTM D257         Volume Resistivity       1.0E+11 ohms·cm       IEC 60093         Arc Resistance       PLC 4       ASTM D495         Electric Strength       26 kW/mm       IEC 60093         RTI Elec       UL 746         1.5 mm       105 °C         3.0 mm       105 °C         6.0 mm       90.0 °C         3.0 mm       90.0 °C         3.0 mm       90.0 °C         3.0 mm       90.0 °C         3.0 mm       85.0 °C         3.0 mm       7         1.5 mm       85.0 °C         3.0 mm       85.0 °C         3.0		PLC 0	325
6.0 mm         PLC 0           Comparative Tracking Index (CTI)         PLC 0         UL 746           Dielectric Strength         26 kV/mm         ASTM D149           High Voltage Arc Tracking Rate (HVTR)         PLC 0         UL 746           Volume Resistivity         1.0E+11 ohms·cm         ASTM D257           Volume Resistivity         1.0E+11 ohms·cm         IEC 60093           Arc Resistance         PLC 4         ASTM D495           Electric Strength         26 kV/mm         IEC 60243-1           Themal         Value         Test Method           RTI Elec         UL 746         UL 746           1.5 mm         105 °C         UL 746           3.0 mm         105 °C         UL 746           1.5 mm         90.0 °C         UL 746           1.5 mm         90.0 °C         UL 746           RTI Str         UL 746         UL 746           RTI Str         UL 746         UL 746           1.5 mm         85.0 °C         S5.0 °C           3.0 mm         85.0 °C         S5.0 °C           6.0 mm         85.0 °C         S5.0 °C           9.0 mm         Value         Test Method           Physical         Value         Test Metho			
Comparative Tracking Index (CTI)         PLC 0         UL 746           Dielectric Strength         26 kV/mm         ASTM D149           High Voltage Arc Tracking Rate (HVTR)         PLC 0         UL 746           Volume Resistivity         1.0E+11 ohms·cm         ASTM D257           Volume Resistivity         1.0E+11 ohms·cm         IEC 60093           Arc Resistance         PLC 4         ASTM D495           Electric Strength         26 kV/mm         IEC 60243-1           Thermal         Value         Test Method           RTI Elec         UL 746           1.5 mm         105 °C           3.0 mm         105 °C           6.0 mm         90.0 °C           3.0 mm         90.0 °C           3.0 mm         90.0 °C           RTI Str         UL 746           1.5 mm         85.0 °C           3.0 mm         85.0 °C           6.0 mm         85.0 °C           Physical         Value         Test Method           Dimensional Stability         0.0 %         ASTM D1042			
Dielectric Strength         26 kV/mm         ASTM D149           High Voltage Arc Tracking Rate (HVTR)         PLC 0         UL 746           Volume Resistivity         1.0E+11 ohms·cm         ASTM D257           Volume Resistivity         1.0E+11 ohms·cm         IEC 60093           Arc Resistance         PLC 4         ASTM D495           Electric Strength         26 kV/mm         IEC 60243-1           Thermal         Value         Test Method           RTI Elec         UL 746         UL 746           1.5 mm         105 °C         UL 746           3.0 mm         105 °C         UL 746           1.5 mm         90.0 °C         UL 746           3.0 mm         90.0 °C         UL 746           1.5 mm         85.0 °C         UL 746			UI 746
High Voltage Arc Tracking Rate (HVTR)         PLC 0         UL 746           Volume Resistivity         1.0E+11 ohms·cm         ASTM D257           Volume Resistivity         1.0E+11 ohms·cm         IEC 60093           Arc Resistance         PLC 4         ASTM D495           Electric Strength         26 kV/mm         IEC 60243-1           Thermal         Value         Test Method           RTI Elec         UL 746         UL 746           1.5 mm         105 °C         105 °C           3.0 mm         105 °C         105 °C           6.0 mm         90.0 °C         UL 746           1.5 mm         90.0 °C         UL 746           3.0 mm         90.0 °C         UL 746           1.5 mm         85.0 °C         85.0 °C           6.0 mm         85.0 °C         85.0 °C           6.0 mm         85.0 °C         ASTM D1042			
Volume Resistivity         1.0E+11 ohms cm         ASTM D257           Volume Resistivity         1.0E+11 ohms cm         IEC 60093           Arc Resistance         PLC 4         ASTM D495           Electric Strength         26 kV/mm         IEC 60243-1           Themal         Value         Test Method           RTI Elec         UL 746           1.5 mm         105 °C           3.0 mm         105 °C           6.0 mm         105 °C           RTI Imp         UL 746           1.5 mm         90.0 °C           3.0 mm         90.0 °C           6.0 mm         90.0 °C           RTI Str         UL 746           1.5 mm         85.0 °C           3.0 mm         85.0 °C           3.0 mm         85.0 °C           6.0 mm         85.0 °C           9.0 mm         ASTM D1042			
Volume Resistivity         1.0E+11 ohms·cm         IEC 60093           Arc Resistance         PLC 4         ASTM D495           Electric Strength         26 kV/mm         IEC 60243-1           Thermal         Value         Test Method           RTI Elec         UL 746         1.5 mm           3.0 mm         105 °C         1.05 °C           6.0 mm         105 °C         UL 746           1.5 mm         90.0 °C         1.5 mm           3.0 mm         90.0 °C         90.0 °C           6.0 mm         90.0 °C         90.0 °C           3.0 mm         85.0 °C         90.0 °C           3.0 mm         85.0 °C         85.0 °C           6.0 mm         85.0 °C         85.0 °C           Physical         Value         Test Method           Dimensional Stability         0.0 %         ASTM D1042			
Arc Resistance         PLC 4         ASTM D495           Electric Strength         26 kV/mm         IEC 60243-1           Thermal         Value         Test Method           RTI Elec         UL 746           1.5 mm         105 °C           3.0 mm         105 °C           RTI Imp         UL 746           1.5 mm         90.0 °C           3.0 mm         90.0 °C           6.0 mm         90.0 °C           RTI Str         UL 746           1.5 mm         85.0 °C           3.0 mm         85.0 °C           3.0 mm         85.0 °C           6.0 mm         85.0 °C           Physical         Value         Test Method           Dimensional Stability         0.0 %         ASTM D1042			
Electric Strength         26 kV/mm         IEC 60243-1           Thermal         Value         Test Method           RTI Elec         UL 746           1.5 mm         105 °C           3.0 mm         105 °C           6.0 mm         105 °C           RTI Imp         UL 746           1.5 mm         90.0 °C           3.0 mm         90.0 °C           6.0 mm         90.0 °C           RTI Str         UL 746           1.5 mm         85.0 °C           3.0 mm         85.0 °C           6.0 mm         85.0 °C           Fhysical         Value         Test Method           Dimensional Stability         0.0 %         ASTM D1042	·		
Thermal         Value         Test Method           RTI Elec         UL 746           1.5 mm         105 °C           3.0 mm         105 °C           6.0 mm         105 °C           RTI Imp         UL 746           1.5 mm         90.0 °C           3.0 mm         90.0 °C           6.0 mm         90.0 °C           RTI Str         UL 746           1.5 mm         85.0 °C           3.0 mm         85.0 °C           6.0 mm         85.0 °C           Physical         Value         Test Method           Dimensional Stability         0.0 %         ASTM D1042			
RTI Elec       UL 746         1.5 mm       105 °C         3.0 mm       105 °C         6.0 mm       105 °C         RTI Imp       UL 746         1.5 mm       90.0 °C         3.0 mm       90.0 °C         6.0 mm       90.0 °C         RTI Str       UL 746         1.5 mm       85.0 °C         3.0 mm       85.0 °C         6.0 mm       85.0 °C         Fhysical       Value       Test Method         Dimensional Stability       0.0 %       ASTM D1042			
1.5 mm       105 °C         3.0 mm       105 °C         6.0 mm       105 °C         RTI Imp       UL 746         1.5 mm       90.0 °C         3.0 mm       90.0 °C         6.0 mm       90.0 °C         RTI Str       UL 746         1.5 mm       85.0 °C         3.0 mm       85.0 °C         6.0 mm       85.0 °C         Physical       Value       Test Method         Dimensional Stability       0.0 %       ASTM D1042		14.40	
3.0 mm       105 °C         6.0 mm       105 °C         RTI Imp       UL 746         1.5 mm       90.0 °C         3.0 mm       90.0 °C         6.0 mm       90.0 °C         RTI Str       UL 746         1.5 mm       85.0 °C         3.0 mm       85.0 °C         6.0 mm       85.0 °C         Physical       Value       Test Method         Dimensional Stability       0.0 %       ASTM D1042		105°C	
6.0 mm       105 °C         RTI Imp       UL 746         1.5 mm       90.0 °C         3.0 mm       90.0 °C         6.0 mm       90.0 °C         RTI Str       UL 746         1.5 mm       85.0 °C         3.0 mm       85.0 °C         6.0 mm       85.0 °C         Physical       Value       Test Method         Dimensional Stability       0.0 %       ASTM D1042			
RTI Imp       UL 746         1.5 mm       90.0 °C         3.0 mm       90.0 °C         6.0 mm       90.0 °C         RTI Str       UL 746         1.5 mm       85.0 °C         3.0 mm       85.0 °C         6.0 mm       85.0 °C         Physical Value Test Method         Dimensional Stability       0.0 %       ASTM D1042	6.0 mm		
3.0 mm       90.0 °C         6.0 mm       90.0 °C         RTI Str       UL 746         1.5 mm       85.0 °C         3.0 mm       85.0 °C         6.0 mm       85.0 °C         Physical Value Test Method         Dimensional Stability       0.0 %       ASTM D1042	RTI Imp		UL 746
3.0 mm       90.0 °C         6.0 mm       90.0 °C         RTI Str       UL 746         1.5 mm       85.0 °C         3.0 mm       85.0 °C         6.0 mm       85.0 °C         Physical Value Test Method         Dimensional Stability       0.0 %       ASTM D1042	· ·	90.0°C	
6.0 mm       90.0 °C         RTI Str       UL 746         1.5 mm       85.0 °C         3.0 mm       85.0 °C         6.0 mm       85.0 °C         Physical Value Test Method         Dimensional Stability       0.0 %       ASTM D1042			
RTI Str       UL 746         1.5 mm       85.0 °C         3.0 mm       85.0 °C         6.0 mm       85.0 °C         Physical       Value       Test Method         Dimensional Stability       0.0 %       ASTM D1042			
1.5 mm       85.0 °C         3.0 mm       85.0 °C         6.0 mm       85.0 °C         Physical Value Test Method         Dimensional Stability       0.0 %       ASTM D1042	RTI Str		UL 746
3.0 mm       85.0 °C         6.0 mm       85.0 °C         Physical Value Test Method         Dimensional Stability       0.0 %       ASTM D1042		85.0°C	
6.0 mm 85.0 °C  Physical Value Test Method  Dimensional Stability 0.0 % ASTM D1042	3.0 mm	85.0 °C	
Physical Value Test Method Dimensional Stability 0.0% ASTM D1042			
Dimensional Stability 0.0 % ASTM D1042	Physical	Value	Test Method
·		0.0 %	ASTM D1042
	·	0.0%	ISO 2796

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Form Number: E48285-240763

## Component - Plastics

File Number: E48285



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