

Test Standard ISO 2039-1

Grivory HT1V-6 FWA black 9225

PA6T/6I-GF60 EMS-GRIVORY | a unit of EMS-CHEMIE AG

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Product designation according to ISO 1874:

PA6T/6I, MH, 12-220, GF60

Mechanical properties (TPE)

Ball indentation hardness

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	23000 / 22500	MPa	ISO 527-1/-2
Stress at break	260 / 250	MPa	ISO 527-1/-2
Strain at break	1.5 / 1.5	%	ISO 527-1/-2
Charpy impact strength (+23°C)	75 / 75	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	75 / 75	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	11 / 11	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	10 / 10	kJ/m²	ISO 179/1eA

Unit

MPa

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	325 / -	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	290 / -	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	215 / -	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	15 / -	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	40 / -	E-6/K	ISO 11359-1/-2
Burning Behav. at thickness h	HB / -	class	IEC 60695-11-10
Thickness tested	0.8 / -	mm	IEC 60695-11-10
Max. usage temperature (long term)	140	°C	ISO 2578
Max. usage temperature (short term)	270	°C	EMS

360 / 360

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	1E11 / 1E11	Ohm*m	IEC 60093
Surface resistivity	- / 1E12	Ohm	IEC 60093
Electric strength	30 / 30	kV/mm	IEC 60243-1
Comparative tracking index	- / 600	=	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	3/-	%	Sim. to ISO 62
Humidity absorption	1.2 / -	%	Sim. to ISO 62
Density	1780 / -	kg/m³	ISO 1183

Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	0.1 / -	%	ISO 294-4, 2577
Molding shrinkage (normal)	0.2 / -	%	ISO 294-4, 2577

Characteristics

Processing	Product Attributes

Injection Molding Hydrolysis resistant

Delivery form Industry & Consumer goods

Granules Housewares, Medical devices, Sanitary, water and gas supply

Special Characteristics Food Contact

Improved UV resistance (outdoor use)

NSF 51, EU Requirements, FDA

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Regional Availability

Potable Water Contact

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

NSF 61, KTW, WRAS, ACS, DVGW W270