

ISO 179/1eA

Test Standard

Grivory HT1V-4 FWA black 9225

PA6T/6I-GF40

EMS-GRIVORY | a unit of EMS-CHEMIE AG

kJ/m²

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Product designation according to ISO 1874: PA6T/6I, MH, 12-140, GF40

Charpy notched impact strength (-30°C)

Mechanical properties (TPE)

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Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	14500 / 14000	MPa	ISO 527-1/-2
Stress at break	220 / 210	MPa	ISO 527-1/-2
Strain at break	2/2	%	ISO 527-1/-2
Charpy impact strength (+23°C)	70 / 70	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	70 / 70	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	8/8	kJ/m²	ISO 179/1eA

8/8

Ball indentation hardness	310 / 300	MPa	ISO 2039-1
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)	280 / -	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	200 / -	°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)	50 / -	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

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	3.5 / -	%	Sim. to ISO 62
Humidity absorption	1.5 / -	%	Sim. to ISO 62
Density	1530 / -	kg/m³	ISO 1183

Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	0.1 / -	%	ISO 294-4, 2577
Molding shrinkage (normal)	0.6 / -	%	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

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Improved UV resistance (outdoor use)

The values are intended to serve as an aid in preselecting materials and for an overview of the EMS-GRIVORY product range. The information contained in this publication is based on our present knowledge and experience. The given figures and data are guidance values and do not represent binding material specifications. No warranties of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are given regarding products, design, data and information. The customer is not released from his obligation to investigate the products fitness and the suitability for the intended application, compliance with legal requirements and intellectual property rights. We reserve the right to change the information at any time and without prior notice. The information in this publication is not to be considered a contractual obligation and anyliability whatsoever is expressly declined. For further questions about our products please contact our experts.

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