

**Test Standard** 

ISO 2039-1

# Grivory HT1V-5 FWA black 9225

PA6T/6I-GF50

## EMS-GRIVORY | a unit of EMS-CHEMIE AG

MPa

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Product designation according to ISO 1874:

PA6T/6I, MH, 12-190, GF50

Mechanical properties (TPE)

Ball indentation hardness

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	18000 / 17500	MPa	ISO 527-1/-2
Stress at break	250 / 240	MPa	ISO 527-1/-2
Strain at break	2/2	%	ISO 527-1/-2
Charpy impact strength (+23°C)	80 / 80	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	80 / 80	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

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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)	285 / -	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	210 / -	°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

340 / 340

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	1.3 / -	%	Sim. to ISO 62
Density	1650 / -	kg/m³	ISO 1183

Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	0.1 / -	%	ISO 294-4, 2577
Molding shrinkage (normal)	0.5 / -	%	ISO 294-4, 2577

#### Characteristics

Processing	Prod	duct Attri	ibutes

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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# **Grivory HT1V-5 FWA black 9225** PA6T/6I-GF50

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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