

EMS-Grivory Grivory® HTV-5H1 black 9205 PA6T/6I-GF50

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , 50% Glass Fiber Filled

Material Notes:

Product description: Grivory HTV-5H1 black 9205 is a 50% glass fiber reinforced engineering thermoplastic material based on a semi-crystalline, partially aromatic copolyamide. Acc. to ISO: PA 6T/6I. Acc. to ASTM: PPA, Polyphthalamide. Grivory HTV-5H1 is a specially heat stabilized injection molding material. The main distinguishing feature of Grivory HT-PPA, when compared to other polyamides, is its good performance values at high temperatures providing parts which are stiffer, stronger and have better heat distortion stability and chemical resistance. Grivory HT-PPA is suitable for production of technical parts in the application fields of: ElectroElectronicsAutomotiveMechanical engineeringDomestic applianceInformation provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-HTV-5H1-black-9205-PA6T6I-GF50.php

Physical Properties	Metric	English	Comments
Density	1.65 g/cc	0.0596 lb/in ³	ISO 1183
Water Absorption	3.0 %	3.0 %	ISO 62
Moisture Absorption	1.30 %	1.30 %	ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	340 MPa	49300 psi	dry; ISO 2039-1
	340 MPa	49300 psi	conditioned; ISO 2039-1
Tensile Strength at Break	240 MPa	34800 psi	conditioned; ISO 527-1/-2
	250 MPa	36300 psi	dry; ISO 527-1/-2
Elongation at Break	2.0 %	2.0 %	dry; ISO 527-1/-2
	2.0 %	2.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	17.5 GPa	2540 ksi	conditioned; ISO 527-1/-2
	18.0 GPa	2610 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	8.00 J/cm ²	38.1 ft-lb/in ²	dry; ISO 179/1eU
	8.00 J/cm ²	38.1 ft-lb/in ²	conditioned; ISO 179/1eU
	8.00 J/cm ² @Temperature 30.0 °C	38.1 ft-lb/in ² @Temperature 86.0 °F	dry; ISO 179/1eU

Mechanical Properties	Metric ¹ /cm ²	English ^{1b} /in ²	Comments
	@Temperature 30.0 °C	@Temperature 86.0 °F	conditioned; ISO 179/1eU
Charpy Impact, Notched	1.10 J/cm ²	5.23 ft-lb/in ²	dry; ISO 179/1eA
	1.10 J/cm ²	5.23 ft-lb/in ²	conditioned; ISO 179/1eA
	1.00 J/cm ²	4.76 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	1.00 J/cm ²	4.76 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	15.0 µm/m-°C	8.33 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	40.0 µm/m-°C	22.2 µin/in-°F	ISO 11359-1/-2
Melting Point	325 °C	617 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	150 °C	302 °F	long term; EMS
	250 °C	482 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	285 °C	545 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	210 °C	410 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	dry; IEC 60093
	1.00e+13 ohm-cm	1.00e+13 ohm-cm	conditioned; IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Strength	30.0 kV/mm	762 kV/in	dry; IEC 60243-1
	30.0 kV/mm	762 kV/in	conditioned; IEC 60243-1
Comparative Tracking Index	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Exterior	
	Fuel systems	

Descriptive Properties	Value	Comments
	Powertrain and Chassis	
Electricals & Electronics	Electrical appliances	
	Energy distribution	
Form	Granules	
Industry & Consumer goods	Housewares	
	Hydraulics & Pneumatics	
	Mechanical Engineering	
	Power transmission	
	Sports & Leisure	
	Tools & Accessories	
Processing	Injection Molding	
Special Characteristics	Improved heat resistance	
	Improved UV resistance (outdoor use)	

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