

Grivory® HT1V-5 HY black 9205

Polyamide 6I/6T Copolymer

EMS-GRIVORY

Message:

Grivory® HT1V-5 HY black 9205 is a Polyamide 6I/6T Copolymer (Nylon 6I/6T) material filled with 50% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Grivory® HT1V-5 HY black 9205 are:

Flame Rated

RoHS Compliant

Heat Resistant

Typical applications include:

Automotive

Consumer Goods

Industrial Applications

General Information				
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Features		High Heat Resistance		
		Hydrolysis Resistant		
Uses		Automotive Applications		
		Automotive Exterior Parts		
		Automotive Interior Parts		
		Consumer Applications		
		Hydraulic Applications		
		Industrial Applications		
		Pneumatic Applications		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.65	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.60	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	3.0	--	%	
Equilibrium, 23°C, 50% RH	1.3	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	340	340	MPa	ISO 2039-1

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	18000	17500	MPa	ISO 527-2
Tensile Stress (Break)	250	240	MPa	ISO 527-2
Tensile Strain (Break)	2.0	2.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	10	10	kJ/m ²	
23°C	11	11	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	80	80	kJ/m ²	
23°C	80	80	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	285	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	210	--	°C	ISO 75-2/C
Continuous Use Temperature				Internal Method
-- ¹	150	--	°C	
-- ²	250	--	°C	
Melting Temperature ³	325	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.5E-5	--	cm/cm/°C	
Transverse	4.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+13	1.0E+13	ohms·cm	IEC 60093
Electric Strength	30	30	kV/mm	IEC 60243-1
Comparative Tracking Index	--	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (0.800 mm)	HB	--		IEC 60695-11-10, -20
Additional Information	Dry	Conditioned		Test Method
ISO Type	PA 6T/6I, MH, 14-190, GF50	--		ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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