

Grivory® HTV-45H1 black 9205

Polyamide 6I/6T Copolymer

EMS-GRIVORY

Message:

Grivory® HTV-45H1 black 9205 is a Polyamide 6I/6T Copolymer (Nylon 6I/6T) material filled with 45% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Grivory® HTV-45H1 black 9205 are:

Flame Rated

RoHS Compliant

Heat Resistant

Heat Stabilizer

Typical applications include:

Automotive

Consumer Goods

Engineering/Industrial Parts

Household Applications

Industrial Applications

General Information	
UL YellowCard	E53898-102346155
Filler / Reinforcement	Glass Fiber,45% Filler by Weight
Additive	Heat Stabilizer
Features	Heat Stabilized
	High Heat Resistance
Uses	Automotive Applications
	Automotive Exterior Parts
	Automotive Interior Parts
	Consumer Applications
	Engineering Parts
	Household Goods
	Hydraulic Applications
	Industrial Applications
	Pneumatic Applications
	Power/Other Tools
	Sporting Goods
RoHS Compliance	RoHS Compliant
Appearance	Black
Forms	Granules
Processing Method	Injection Molding
Multi-Point Data	Isochronous Stress vs. Strain (ISO 11403-1)
	Shear Modulus vs. Temperature (ISO 11403-1)

Physical	Dry	Conditioned	Unit	Test Method
Density	1.59	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.70	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	3.3	--	%	
Equilibrium, 23°C, 50% RH	1.4	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	325	320	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	16500	16000	MPa	ISO 527-2
Tensile Stress (Break)	235	230	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	12	12	kJ/m ²	
23°C	12	12	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	75	75	kJ/m ²	
23°C	75	75	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	205	--	°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	4.5E-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, 12-160, GF45	--	ISO 1874
NOTE			
1.	Long Term		
2.	Short Term		
3.	10°C/min		

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