

Grivory® HTV-3H1 black 9205

Polyamide 6I/6T Copolymer

EMS-GRIVORY

Message:

Grivory® HTV-3H1 black 9205 is a Polyamide 6I/6T Copolymer (Nylon 6I/6T) material filled with 30% 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-3H1 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	E53898-243893	E53898-102346154
Filler / Reinforcement	Glass Fiber,30% 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	
RoHS Compliance	RoHS Compliant	
	Black	
	Granules	
Processing Method	Injection Molding	
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)	
	Secant Modulus vs. Strain (ISO 11403-1)	
	Shear Modulus vs. Temperature (ISO 11403-1)	

Specific Volume vs Temperature (ISO 11403-2)

Viscosity vs. Shear Rate (ISO 11403-2)

Physical	Dry	Conditioned	Unit	Test Method
Density	1.44	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.20	--	%	
Water Absorption				ISO 62
Saturation, 23°C	3.5	--	%	
Equilibrium, 23°C, 50% RH	1.8	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	280	270	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	11000	11000	MPa	ISO 527-2
Tensile Stress (Break)	190	170	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	7.0	7.0	kJ/m ²	
23°C	7.0	7.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	50	50	kJ/m ²	
23°C	50	50	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	280	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	155	--	°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	2.0E-5	--	cm/cm/°C	
Transverse	5.0E-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	--	575	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	PA6T/6I, MH, 12-110, GF30	--		ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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