

Grivory® HTV-5H1 nat

Polyamide 6I/6T Copolymer

EMS-GRIVORY

Message:

Grivory® HTV-5H1 nat 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® HTV-5H1 nat are:

Flame Rated

RoHS Compliant

Heat Resistant

Heat Stabilizer

Typical applications include:

Automotive

Consumer Goods

Electrical/Electronic Applications

Engineering/Industrial Parts

Household Applications

General Information		
UL YellowCard	E53898-243897	E53898-102346154
Filler / Reinforcement	Glass Fiber,50% Filler by Weight	
Additive	Heat Stabilizer	
Features	Heat Stabilized	
	High Heat Resistance	
Uses	Automotive Applications	
	Automotive Interior Parts	
	Consumer Applications	
	Electrical/Electronic Applications	
	Engineering Parts	
	Household Goods	
	Hydraulic Applications	
	Industrial Applications	
	Pneumatic Applications	
	Power/Other Tools	
	Sporting Goods	
RoHS Compliance	RoHS Compliant	
Appearance	Natural Color	
Forms	Granules	
Processing Method	Injection Molding	
Multi-Point Data	Isochronous Stress vs. Strain (ISO 11403-1)	
	Isothermal Stress vs. Strain (ISO 11403-1)	
	Secant Modulus vs. Strain (ISO 11403-1)	

Shear Modulus vs. Temperature (ISO 11403-1)

Physical	Dry	Conditioned	Unit	Test Method
Density	1.65	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.50	--	%	
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	175	--	°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	35	35	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	PA6T/6I, MH, 12-190, GF50	--		ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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