

Grivory® HT2V-5H

Polyamide 6T/66 Copolymer

EMS-GRIVORY

Message:

Grivory® HT2V-5H is a Polyamide 6T/66 Copolymer (Nylon 6T/66) 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® HT2V-5H are:

Flame Rated

RoHS Compliant

Good UV Resistance

Heat Resistant

Typical applications include:

Automotive

Engineering/Industrial Parts

Household Applications

Outdoor Applications

Sporting Goods

General Information	
UL YellowCard	E53898-243890
Filler / Reinforcement	Glass Fiber,50% Filler by Weight
Features	Good UV Resistance
	High Heat Resistance
Uses	Automotive Applications
	Automotive Exterior Parts
	Automotive Interior Parts
	Engineering Parts
	Household Goods
	Hydraulic Applications
	Outdoor Applications
	Pneumatic Applications
	Power/Other Tools
	Sporting Goods
RoHS Compliance	RoHS Compliant
Forms	Granules
Processing Method	Injection Molding
Multi-Point Data	Creep Modulus vs. Time (ISO 11403-1)
	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)
	Specific Volume vs Temperature (ISO 11403-2)

Physical	Dry	Conditioned	Unit	Test Method
Density	1.62	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.70	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	3.5	--	%	
Equilibrium, 23°C, 50% RH	1.2	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	325	325	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	17500	17000	MPa	ISO 527-2
Tensile Stress (Break)	250	215	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	11	10	kJ/m ²	
23°C	11	11	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	60	60	kJ/m ²	
23°C	75	75	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	230	--	°C	ISO 75-2/C
Maximum Use Temperature				Internal Method
Long Term	140	--	°C	
Short Term	240	--	°C	
ISO Type	PA6T/66, MH, 14-190, GF50	--		ISO 1874
Melting Temperature ¹	310	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.0E-5	--	cm/cm/°C	
Transverse	5.5E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+12	1.0E+12	ohms · cm	IEC 60093
Electric Strength	38	38	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
NOTE				
1.	10°C/min			

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