

Grivory® HT1V-4 FWA nat

Polyamide 6I/6T Copolymer

EMS-GRIVORY

Message:

Grivory® HT1V-4 FWA nat is a Polyamide 6I/6T Copolymer (Nylon 6I/6T) material filled with 40% 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-4 FWA nat are:

- Flame Rated
- RoHS Compliant
- Food Contact Acceptable
- Heat Resistant

Typical applications include:

- Plumbing/Piping/Potable Water
- Food Contact Applications
- Consumer Goods
- Household Applications
- Industrial Applications

General Information				
UL YellowCard		E53898-101096145	E53898-101096146	
Filler / Reinforcement		Glass Fiber,40% Filler by Weight		
Features		Food Contact Acceptable		
		High Heat Resistance		
		Hydrolysis Resistant		
Uses		Consumer Applications		
		Household Goods		
		Industrial Applications		
		Medical Devices		
Agency Ratings		ACS Unspecified Rating		
		DVGW W270		
		EU Food Contact, Unspecified Rating		
		FDA Food Contact, Unspecified Rating		
		KTW Unspecified Rating		
		NSF 51		
		NSF 61		
		WRAS Unspecified Rating		
RoHS Compliance		RoHS Compliant		
Appearance		Natural Color		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method

Density	1.53	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.60	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	3.5	--	%	
Equilibrium, 23°C, 50% RH	1.5	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	310	300	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	14500	14000	MPa	ISO 527-2
Tensile Stress (Break)	220	210	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	8.0	8.0	kJ/m ²	
23°C	8.0	8.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	70	70	kJ/m ²	
23°C	70	70	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	175	--	°C	ISO 75-2/C
Continuous Use Temperature				Internal Method
-- ¹	140	--	°C	
-- ²	250	--	°C	
Melting Temperature ³	325	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.5E-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	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, 12-070, GF40	--	ISO 1874
NOTE			
1.	Long Term		
2.	Short Term		
3.	10°C/min		

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