Grivory® GC-4H

Polyamide 66 + PA 6I/X

EMS-GRIVORY

Message:

Grivory® GC-4H is a Polyamide 66 + PA 6I/X (Nylon 66+Nylon 6I/X) material filled with 40% carbon fiber. It is available in Asia Pacific, Europe, or North America for extrusion or injection molding.
Important attributes of Grivory® GC-4H are:
Flame Rated
RoHS Compliant
Antistatic
Good UV Resistance
Heat Resistant
Typical applications include:
Automotive
Appliances
Consumer Goods
Electrical/Electronic Applications
Engineering/Industrial Parts

General Information	
UL YellowCard	E53898-306881
Filler / Reinforcement	Carbon Fiber,40% Filler by Weight
Additive	Antistatic Heat Stabilizer
Features	Antistatic Aromatic Good UV Resistance Heat Stabilized Medium Heat Resistance
Uses	Appliance Components 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
Forms	Granules
Processing Method	Extrusion 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	1.34	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.20	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	4.5	--	%	
Equilibrium, 23°C, 50% RH	1.4	--	%	
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Ball Indentation Hardness	280	260	MPa	ISO 2039-1
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	31000	28000	MPa	ISO 527-2
Tensile Stress (Break)	260	225	MPa	ISO 527-2
Tensile Strain (Break)	1.5	2.0	%	ISO 527-2
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.0	4.0	kJ/m²	
23°C	7.0	7.0	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	45	50	kJ/m²	
23°C	55	60	kJ/m²	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
1.8 MPa, Unannealed	235	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	175	--	°C	ISO 75-2/C
Continuous Use Temperature				Internal Method
-- [1]	100 to 120	--	°C	
-- [2]	220	--	°C	

Melting Temperature [3]	260	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.0E-5	--	cm/cm/°C	
Transverse	8.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	5.0E+3	5.0E+3	ohms·cm	IEC 60093
Electric Strength	--	50	kV/mm	IEC 60243-1
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	PA66+PA6I/X, MH, 14-250, CF~~40~~			ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

Recommended distributors for this material

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