Grivory® HTM-4H1

Polyamide 6I/6T Copolymer

EMS-GRIVORY

Message:

Grivory® HTM-4H1 is a Polyamide 6I/6T Copolymer (Nylon 6I/6T) material filled with 40% mineral. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.
Important attributes of Grivory® HTM-4H1 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	E53898-243891
Filler / Reinforcement	Mineral,40% Filler by Weight
Additive	Heat Stabilizer
Features	Heat Stabilized High Heat Resistance
Uses	Automotive Applications Automotive Interior Parts Consumer Applications Engineering Parts Household Goods Hydraulic Applications Industrial Applications Pneumatic Applications Power/Other Tools Sporting Goods
RoHS Compliance	RoHS Compliant
Forms	Granules
Processing Method	Injection Molding
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1) Shear Modulus vs. Temperature (ISO 11403-1) Specific Volume vs Temperature (ISO 11403-2) Tensile Modulus vs. Temperature (ISO 11403-1) Viscosity vs. Shear Rate (ISO 11403-2)

Physical	Dry	Conditioned	Unit	Test Method
Density	1.55	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.70	--	%	
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	260	260	MPa	ISO 2039-1
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	7500	7500	MPa	ISO 527-2
Tensile Stress (Break)	105	105	MPa	ISO 527-2
Tensile Strain (Break)	1.5	1.5	%	ISO 527-2
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	3.0	4.0	kJ/m²	
23°C	5.0	5.0	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	20	25	kJ/m²	
23°C	50	50	kJ/m²	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
1.8 MPa, Unannealed	145	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	115	--	°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	5.0E-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	32	32	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	PA 6T/6I, MH, 12-070, MD40	--		ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

Recommended distributors for this material

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