

Grivory® GTR 45

Polyamide 6I/6T Copolymer

EMS-GRIVORY

Message:

Grivory® GTR 45 is a Polyamide 6I/6T Copolymer (Nylon 6I/6T) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding or injection stretch blow molding.

Important attributes of Grivory® GTR 45 are:

- Flame Rated
- RoHS Compliant
- Food Contact Acceptable
- Typical applications include:
 - Medical/Healthcare
 - Automotive
 - Food Contact Applications
 - Packaging
 - Appliances

General Information	
UL YellowCard	E53898-243825
Features	Aromatic
	Barrier Resin
	Food Contact Acceptable
Uses	Appliance Components
	Automotive Applications
	Automotive Interior Parts
	Blow Molding Applications
	Blown Containers
	Consumer Applications
	Cosmetic Packaging
	Electrical/Electronic Applications
	Household Goods
	Industrial Applications
	Medical Packaging
	Medical/Healthcare Applications
	Packaging
Agency Ratings	EU Food Contact, Unspecified Rating
	FDA Food Contact, Unspecified Rating
	USP Class VI
RoHS Compliance	RoHS Compliant
Appearance	Clear/Transparent
Forms	Granules

Processing Method		Injection Molding		
		Injection Stretch Blow Molding		
Multi-Point Data		Isochronous Stress 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	1.18	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.50	--	%	
Flow	0.30	--	%	
Water Absorption				ISO 62
Saturation, 23°C	7.0	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	145	145	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3000	3000	MPa	ISO 527-2
Tensile Stress (Yield)	100	100	MPa	ISO 527-2
Tensile Strain (Yield)	5.0	5.0	%	ISO 527-2
Nominal Tensile Strain at Break	> 50	> 50	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	8.0	2.0	kJ/m ²	
23°C	8.0	8.0	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	115	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	105	--	°C	ISO 75-2/A
Continuous Use Temperature				Internal Method
-- ¹	40.0 to 60.0	--	°C	
-- ²	70.0	--	°C	
Glass Transition Temperature ³	125	--	°C	ISO 11357-2
CLTE				ISO 11359-2
Flow	6.0E-5	--	cm/cm/°C	
Transverse	6.0E-5	--	cm/cm/°C	

Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+14	1.0E+14	ohms·cm	IEC 60093
Electric Strength	27	27	kV/mm	IEC 60243-1
Comparative Tracking Index	--	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (0.800 mm)	V-2	--		IEC 60695-11-10, -20
Additional Information	Dry	Conditioned		Test Method
ISO Type	PA6I/6T, FT, 11-030	--		ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT