

Grilamid® TR 30 nat

Polyamide 6I/X Copolymer

EMS-GRIVORY

Message:

Grilamid® TR 30 nat is a Polyamide 6I/X Copolymer (Nylon 6I/X) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for calendering, injection molding, or injection stretch blow molding. Primary attribute of Grilamid® TR 30 nat: Flame Rated.

Typical applications include:

- Automotive
- Electrical/Electronic Applications
- Appliances
- Containers
- Lighting Applications

General Information				
UL YellowCard		E53898-102214160		
Features		Aromatic		
		Barrier Resin		
		Hydrolysis Resistant		
Uses		Appliance Components		
		Automotive Applications		
		Automotive Electronics		
		Automotive Interior Parts		
		Cell Phones		
		Connectors		
		Containers		
		Electrical/Electronic Applications		
		Lighting Applications		
		Medical/Healthcare Applications		
Appearance		Clear/Transparent		
		Natural Color		
Forms		Granules		
Processing Method		Calendering		
		Injection Molding		
		Injection Stretch Blow Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.15	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4

Across Flow	0.70	--	%	
Flow	0.70	--	%	
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	--	160	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	--	2800	MPa	ISO 527-2
Tensile Stress (Yield)	--	90.0	MPa	ISO 527-2
Tensile Strain				ISO 527-2
Yield	--	6.0	%	
Break	--	> 50	%	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	--	12	kJ/m ²	
23°C	--	12	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	--	No Break		
23°C	--	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	135	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	125	--	°C	ISO 75-2/A
Maximum Use Temperature				Internal Method
Long Term	80 to 100	--	°C	
Short Term	120	--	°C	
ISO Type	PA 6I/X , GT, 12-030	--		ISO 1874
Glass Transition Temperature ¹	160	--	°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+12	ohms	IEC 60093
Volume Resistivity	--	1.0E+13	ohms · cm	IEC 60093
Electric Strength	--	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
NOTE				
1.	10°C/min			

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