Grilamid® TR 30 LS nat

Polyamide 6I/X Copolymer

EMS-GRIVORY

Message:

Grilamid® TR 30 LS 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 injection molding or injection stretch blow molding.
Important attributes of Grilamid® TR 30 LS nat are:
Flame Retardant
Lubricated
Typical applications include:
Automotive
Electrical/Electronic Applications
Appliances
Containers
Lighting Applications

General Information	
Additive	Flame Retardant Lubricant
Features	Aromatic Barrier Resin Flame Retardant Hydrolysis Resistant Lubricated
Uses	Appliance Components Automotive Applications Automotive Electronics Automotive Interior Parts Cell Phones Connectors Containers Electrical/Electronic Applications Lighting Applications Medical/Healthcare Applications Pneumatic Applications
Appearance	Clear/Transparent Natural Color
Forms	Granules
Processing Method	Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.15	--	g/cm³	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/m²	
23°C	--	12	kJ/m²	
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

NOTE	
1.	10°C/min

Recommended distributors for this material

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