Grilamid® TR 90 LXS

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® TR 90 LXS is a Polyamide 12 (Nylon 12) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.
Important attributes of Grilamid® TR 90 LXS are:
Flame Rated
RoHS Compliant
Chemical Resistant
Food Contact Acceptable
Good Mold Release
Typical applications include:
Medical/Healthcare
Automotive
Electrical/Electronic Applications
Food Contact Applications
Appliances

General Information	
Features	Alcohol Resistant
	Food Contact Acceptable
	Good Flow
	Good Mold Release
Uses	Appliance Components
	Automotive Applications
	Automotive Interior Parts
	Connectors
	Consumer Applications
	Electrical/Electronic Applications
	Engineering Parts
	Eyeglass Frames
	Eyeglasses
	Household Goods
	Hydraulic Applications
	Industrial Applications
	Medical Devices
	Optical Applications
	Pneumatic Applications
	Power/Other Tools
	Safety Equipment
	Sporting Goods

Agency Ratings	EU Food Contact, Unspecified Rating FDA Food Contact, Unspecified Rating
RoHS Compliance	RoHS Compliant
Appearance	Clear/Transparent
Forms	Granules
Processing Method	Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.00	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.60	--	%	
Flow	0.50	--	%	
Water Absorption				ISO 62
Saturation, 23°C	3.0	--	%	
Equilibrium, 23°C, 50% RH	1.5	--	%	

Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	--	85.0	MPa	ISO 2039-1

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	--	1500	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	--	60.0	MPa	
Break	--	40.0	MPa	
Tensile Strain (Yield)	--	6.0	%	ISO 527-2
Nominal Tensile Strain at Break	--	> 50	%	ISO 527-2

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	--	12	kJ/m²	
23°C	--	9.0	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	100	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	80.0	--	°C	ISO 75-2/A
Continuous Use Temperature				Internal Method
-- [1]	80.0	--	°C	
-- [2]	95.0	--	°C	

Glass Transition Temperature [3]	125	--	°C	ISO 11357-2
CLTE				ISO 11359-2
Flow	9.0E-5	--	cm/cm/°C	
Transverse	9.0E-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	--	35	kV/mm	IEC 60243-1
Comparative Tracking Index	--	600	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 MACM12 + PA 12, GHLT, 18–020			ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

Recommended distributors for this material

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