

Grilamid® TR 90 NZZ nat

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® TR 90 NZZ nat is a Polyamide 12 (Nylon 12) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for extrusion or injection molding.

Important attributes of Grilamid® TR 90 NZZ nat are:

- Flame Rated
- Good UV Resistance
- Impact Resistant
- Typical applications include:
 - Automotive
 - Electrical/Electronic Applications
 - Medical/Healthcare
 - Appliances
 - Engineering/Industrial Parts

General Information	
Features	Good UV Resistance
	High Impact Resistance
	Hydrolysis Resistant
Uses	Appliance Components
	Automotive Applications
	Automotive Exterior Parts
	Automotive Interior Parts
	Cell Phones
	Connectors
	Electrical/Electronic Applications
	Engineering Parts
	Eyeglass Frames
	Household Goods
	Hydraulic Applications
	Lighting Applications
	Medical/Healthcare Applications
	Optical Applications
	Outdoor Applications
	Pneumatic Applications
Appearance	Natural Color
Forms	Granules
Processing Method	Extrusion
	Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	0.990	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.90	--	%	
Flow	0.80	--	%	
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	--	80.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	--	1300	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	--	50.0	MPa	
Break	--	45.0	MPa	
Tensile Strain				ISO 527-2
Yield	--	7.0	%	
Break	--	> 50	%	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	--	25	kJ/m ²	
23°C	--	60	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	130	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	110	--	°C	ISO 75-2/A
Maximum Use Temperature				Internal Method
Long Term	70 to 90	--	°C	
Short Term	115	--	°C	
ISO Type	PA MACM12 to HI, GHL, 14-020-			ISO 1874
Glass Transition Temperature ¹	155	--	°C	ISO 11357-2
CLTE				ISO 11359-2
Flow	1.2E-4	--	cm/cm/°C	
Transverse	1.2E-4	--	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	--	45	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
NOTE				
1.	10°C/min			

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