

Grilamid® TR 90 NZ

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® TR 90 NZ 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 NZ are:

Good UV Resistance

Impact Resistant

Lubricated

Typical applications include:

Automotive

Electrical/Electronic Applications

Medical/Healthcare

Appliances

Engineering/Industrial Parts

General Information	
Additive	Lubricant
Features	Good UV Resistance
	High Impact Resistance
	Hydrolysis Resistant
	Lubricated
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	Clear/Transparent
Forms	Granules
Processing Method	Extrusion

Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.00	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.90	--	%	
Flow	0.90	--	%	
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	--	90.0	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	--	15	kJ/m ²	
23°C	--	22	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	110	--	°C	ISO 75-2/A
Maximum Use Temperature				Internal Method
Long Term	80 to 100	--	°C	
Short Term	120	--	°C	
ISO Type	PA MACM12 to HI, GT, 14-020	--		ISO 1874
Glass Transition Temperature ¹	155	--	°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	--	34	kV/mm	IEC 60243-1
Comparative Tracking Index	--	600	V	IEC 60112
NOTE				
1.	10°C/min			

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