

Grilamid® TR 90 UV

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® TR 90 UV 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 UV are:

- Flame Rated
- RoHS Compliant
- Good UV Resistance
- Good Weather Resistance
- Typical applications include:
 - Automotive
 - Consumer Goods
 - Electrical/Electronic Applications
 - Engineering/Industrial Parts
 - Industrial Applications

General Information	
UL YellowCard	E53898-100132369
Features	Good UV Resistance
	Good Weather Resistance
Uses	Automotive Applications
	Automotive Exterior Parts
	Automotive Interior Parts
	Consumer Applications
	Electrical/Electronic Applications
	Engineering Parts
	Hydraulic Applications
	Industrial Applications
	Pneumatic Applications
	Power/Other Tools
RoHS Compliance	Sporting Goods
	RoHS Compliant
Appearance	Clear/Transparent
Forms	Granules
Processing Method	Extrusion
	Injection Molding
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)
	Secant Modulus vs. Strain (ISO 11403-1)
	Shear Modulus vs. Temperature (ISO 11403-1)

Specific Volume vs Temperature (ISO 11403-2)

Viscosity vs. Shear Rate (ISO 11403-2)

Physical	Dry	Conditioned	Unit	Test Method
Density	1.00	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.70	--	%	
Water Absorption				ISO 62
Saturation, 23°C	3.0	--	%	
Equilibrium, 23°C, 50% RH	1.5	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1600	1600	MPa	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	--	9.0	kJ/m ²	
23°C	--	10	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	115	--	°C	ISO 75-2/A
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	--	31	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, GTL, 14-020	--		ISO 1874

NOTE

1. 10°C/min

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