

Grilamid® TR XE 4010

Polyamide 1010

EMS-GRIVORY

Message:

Grilamid® TR XE 4010 is a Polyamide 1010 (Nylon 1010) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Grilamid® TR XE 4010 are:

- Eco-Friendly/Green
- Impact Resistant
- Lubricated

Typical applications include:

- Electrical/Electronic Applications
- Medical/Healthcare
- Appliances
- Automotive
- Engineering/Industrial Parts

General Information				
Additive		Lubricant		
Features		High Impact Resistance		
		Hydrolysis Resistant		
		Lubricated		
		Renewable Resource Content		
Uses		Appliance Components		
		Automotive Applications		
		Cell Phones		
		Connectors		
		Electrical/Electronic Applications		
		Engineering Parts		
		Eyeglass Frames		
		Household Goods		
		Lighting Applications		
		Medical/Healthcare Applications		
		Optical Applications		
		Pneumatic Applications		
Appearance		Clear/Transparent		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.02	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.50	--	%	

Flow	0.50	--	%	
Water Absorption				ISO 62
Saturation, 23°C	3.8	--	%	
Equilibrium, 23°C, 50% RH	1.8	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	--	110	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	--	1700	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	--	65.0	MPa	
Break	--	55.0	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	--	10	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	105	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	90.0	--	°C	ISO 75-2/A
Maximum Use Temperature				Internal Method
Long Term	60 to 80	--	°C	
Short Term	90	--	°C	
ISO Type	PA MACM10/1010, GTL, 18-020-			ISO 1874
Glass Transition Temperature ¹	118	--	°C	ISO 11357-2
CLTE				ISO 11359-2
Flow	1.0E-4	--	cm/cm/°C	
Transverse	1.0E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+11	ohms	IEC 60093
Volume Resistivity	--	1.0E+11	ohms · cm	IEC 60093
Electric Strength	--	40	kV/mm	IEC 60243-1

Comparative Tracking Index	--	600	V	IEC 60112
NOTE				
1.	10°C/min			

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