

Badamid® PA610 GF30 TF15

Polyamide 610

Bada AG

Message:

Badamid® PA610 GF30 TF15 is a Polyamide 610 (Nylon 610) material filled with 30% glass fiber and 15% ptfе fiber. It is available in Europe for injection molding. Primary attribute of Badamid® PA610 GF30 TF15: Flame Rated.

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight PTFE Fiber,15% Filler by Weight		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		>PA610-(GF30-PTFE15)<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.42	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	1.4	--	%	
Equilibrium, 23°C, 50% RH	0.60	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	9100	8300	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	140	125	MPa	ISO 527-2/1A/5
Tensile Strain (Break, 23°C)	2.5	3.0	%	ISO 527-2/1A/5
Flexural Stress (23°C, 4.00 mm)	200	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	70	--	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	210	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	197	--	°C	ISO 75-2/A
Melting Temperature (DSC) 1	220	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity (1.00 mm)	1.0E+12	--	ohms·cm	IEC 60093
Electric Strength (1.00 mm)	30	--	kV/mm	IEC 60243-1
Comparative Tracking Index	550	--	V	IEC 60112

Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.800 mm	HB	--		
1.60 mm	HB	--		
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0 to 4.0		hr	
Processing (Melt) Temp	240 to 280		°C	
Mold Temperature	60.0 to 90.0		°C	
NOTE				
1.	10 K/Min			

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