

GLAMIDE® T-403

Polyamide 6

TOYOBO America, Inc.

Message:

GLAMIDE® T-403 is a Polyamide 6 (Nylon 6) product filled with 45% glass fiber. It is available in North America. Primary characteristic: flame rated.

General Information				
Filler / Reinforcement		Glass Fiber,45% Filler by Weight		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.48	--	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	4.0	--	g/10 min	ASTM D1238
Molding Shrinkage - Flow				ASTM D955
1.00 mm	0.10 to 0.30	--	%	
3.00 mm	0.30 to 0.60	--	%	
Water Absorption				ASTM D570
24 hr	1.1	--	%	
Equilibrium, 65% RH	1.9	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	120	--		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength				ASTM D638
Yield, -40°C	290	250	MPa	
Yield, 23°C	200	130	MPa	
Yield, 80°C	120	90.0	MPa	
Tensile Elongation (Break, 23°C)	3.2	3.4	%	ASTM D638
Flexural Modulus				ASTM D790
-40°C	13900	12500	MPa	
23°C	12000	7200	MPa	
80°C	6800	4500	MPa	
Flexural Strength				ASTM D790
Yield, -40°C	360	300	MPa	
Yield, 23°C	290	180	MPa	
Yield, 80°C	150	100	MPa	
Compressive Strength (23°C)	160	--	MPa	ASTM D695
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact				ASTM D256
-40°C	120	140	J/m	

23°C	190	250	J/m	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	217	--	°C	
1.8 MPa, Unannealed	217	--	°C	
CLTE - Flow	2.0E-5	--	cm/cm/°C	ASTM D696
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	1.0E+12	ohms·cm	ASTM D257
Dielectric Strength (2.00 mm)	25	19	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	4.20	--		ASTM D150
Dissipation Factor (1 kHz)	0.010	--		ASTM D150
Arc Resistance	100	92.0	sec	ASTM D495
Comparative Tracking Index	550	550	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating	HB	--		UL 94
Injection	Dry	Unit		
Processing (Melt) Temp	270 to 290		°C	
Mold Temperature	60.0		°C	
Injection Pressure	75.0 to 95.0		MPa	

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