

GLAMIDE® T-400G15

Polyamide 6

TOYOBO America, Inc.

Message:

GLAMIDE® T-400G15 is a Polyamide 6 (Nylon 6) product filled with 15% glass fiber. It is available in North America. Primary characteristic: flame rated.

General Information				
Filler / Reinforcement		Glass Fiber, 15% Filler by Weight		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.25	--	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	25	--	g/10 min	ASTM D1238
Molding Shrinkage - Flow				ASTM D955
1.00 mm	0.50 to 0.70	--	%	
3.00 mm	0.70 to 1.1	--	%	
Water Absorption				ASTM D570
24 hr	1.4	--	%	
Equilibrium, 65% RH	3.0	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	118	--		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength				ASTM D638
Yield, -40°C	145	120	MPa	
Yield, 23°C	120	60.0	MPa	
Yield, 80°C	50.0	35.0	MPa	
Tensile Elongation (Break, 23°C)	4.0	9.0	%	ASTM D638
Flexural Modulus				ASTM D790
-40°C	6700	5600	MPa	
23°C	5400	2700	MPa	
80°C	2300	1700	MPa	
Flexural Strength				ASTM D790
Yield, -40°C	210	100	MPa	
Yield, 23°C	170	80.0	MPa	
Yield, 80°C	85.0	45.0	MPa	
Compressive Strength (23°C)	110	--	MPa	ASTM D695
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact				ASTM D256
-40°C	45	55	J/m	

23°C	64	80	J/m	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	217	--	°C	
1.8 MPa, Unannealed	178	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	1.0E+12	ohms·cm	ASTM D257
Dielectric Strength (2.00 mm)	23	17	kV/mm	ASTM D149
Arc Resistance	110	90.0	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	260 to 280		°C	
Mold Temperature	60.0		°C	
Injection Pressure	30.0 to 55.0		MPa	

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