

GLAMIDE® T-402FR

Polyamide 6
TOYOBO America, Inc.

Message:

GLAMIDE® T-402FR is a Polyamide 6 (Nylon 6) product filled with 30% glass fiber. It is available in North America.

Characteristics include:

Flame Rated
Flame Retardant

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Halogen		
Features		Flame Retardant		
		Halogenated		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.59	--	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)	20	--	g/10 min	ASTM D1238
Molding Shrinkage - Flow				ASTM D955
1.00 mm	0.40 to 0.80	--	%	
3.00 mm	1.0 to 1.3	--	%	
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	215	--	MPa	
Yield, 23°C	150	85.0	MPa	
Yield, 80°C	92.0	--	MPa	
Tensile Elongation (Break, 23°C)	3.5	4.6	%	ASTM D638
Flexural Modulus				ASTM D790
-40°C	12500	--	MPa	
23°C	9800	5800	MPa	
80°C	5400	--	MPa	
Flexural Strength				ASTM D790
Yield, -40°C	235	--	MPa	
Yield, 23°C	200	95.0	MPa	

Yield, 80°C	125	--	MPa	
Compressive Strength (23°C)	140	--	MPa	ASTM D695
Taber Abrasion Resistance (1000 Cycles, CS-17 Wheel)	25.0	--	mg	ASTM D1044
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact				ASTM D256
-40°C	70	80	J/m	
23°C	110	130	J/m	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	217	--	°C	
1.8 MPa, Unannealed	210	--	°C	
CLTE - Flow	2.3E-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)	21	15	kV/mm	ASTM D149
Arc Resistance	25.0	15.0	sec	ASTM D495
Comparative Tracking Index	325	325	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.800 mm)	V-0	--		UL 94
Injection	Dry	Unit		
Processing (Melt) Temp	250 to 280		°C	
Mold Temperature	60.0		°C	
Injection Pressure	40.0 to 60.0		MPa	

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