

GLAMIDE® T-402

Polyamide 6

TOYOBO America, Inc.

Message:

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

General Information				
UL YellowCard		E51743-242477		
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.36	--	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	19	--	g/10 min	ASTM D1238
Molding Shrinkage - Flow				ASTM D955
1.00 mm	0.20 to 0.40	--	%	
3.00 mm	0.40 to 0.70	--	%	
Water Absorption				ASTM D570
24 hr	1.3	--	%	
Equilibrium, 65% RH	2.5	--	%	
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	245	220	MPa	
Yield, 23°C	170	105	MPa	
Yield, 80°C	100	70.0	MPa	
Tensile Elongation (Break, 23°C)	3.6	5.6	%	ASTM D638
Flexural Modulus				ASTM D790
-40°C	10800	9200	MPa	
23°C	8500	5000	MPa	
80°C	4500	3400	MPa	
Flexural Strength				ASTM D790
Yield, -40°C	305	290	MPa	
Yield, 23°C	260	130	MPa	
Yield, 80°C	150	100	MPa	
Compressive Strength (23°C)	155	--	MPa	ASTM D695
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact				ASTM D256

-40°C	80	85	J/m	
23°C	120	200	J/m	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	217	--	°C	
1.8 MPa, Unannealed	205	--	°C	
CLTE - Flow	2.5E-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)	23	17	kV/mm	ASTM D149
Arc Resistance	100	90.0	sec	ASTM D495
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 60.0		MPa	

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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