

GLAMIDE® T-777-02

Polyamide 6
TOYOBO America, Inc.

Message:

GLAMIDE®T-777-02 is a polyamide 6 (nylon 6) product, which contains a 40% mineral filler. It is available in North America. The main characteristics are: flame retardant/rated flame.

General Information				
UL YellowCard		E51743-242493		
Filler / Reinforcement		Mineral filler, 40% filler by weight		
Features		Electroplateable		
Forms		Particle		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.48	--	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	33	--	g/10 min	ASTM D1238
Molding Shrinkage - Flow				ASTM D955
1.00 mm	0.30 - 0.50	--	%	ASTM D955
3.00 mm	0.80 - 1.3	--	%	ASTM D955
Water Absorption				ASTM D570
24 hr	0.90	--	%	ASTM D570
Equilibrium, 65% RH	2.0	--	%	ASTM D570
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	115	110	MPa	ASTM D638
Yield, 23°C	86.0	45.0	MPa	ASTM D638
Yield, 80°C	40.0	30.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	11	25	%	ASTM D638
Flexural Modulus				ASTM D790
-40°C	7300	6300	MPa	ASTM D790
23°C	5500	2000	MPa	ASTM D790
80°C	1700	1000	MPa	ASTM D790
Flexural Strength				ASTM D790
Yield, -40°C	170	65.0	MPa	ASTM D790
Yield, 23°C	140	75.0	MPa	ASTM D790
Yield, 80°C	60.0	38.0	MPa	ASTM D790
Compressive Strength (23°C)	105	--	MPa	ASTM D695

Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact				ASTM D256
-40°C	32	45	J/m	ASTM D256
23°C	65	280	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, not annealed	205	--	°C	ASTM D648
1.8 MPa, not annealed	150	--	°C	ASTM D648
CLTE - Flow	7.0E-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)	21	16	kV/mm	ASTM D149
Arc Resistance	130	120	sec	ASTM D495
Comparative Tracking Index	600	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.750 mm)	HB	--		UL 94

Additional Information

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Comparative Tracking Index, IEC Method: >600 V

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Comparative Tracking Index, IEC Method: >600 V

Injection	Dry	Unit
Processing (Melt) Temp	280 - 300	°C
Mold Temperature	70.0 - 110	°C
Injection Pressure	40.0 - 50.0	MPa

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