

GLAMIDE® T-803

Polyamide 6
TOYOBO America, Inc.

Message:

GLAMIDE®T-803 is a polyamide 6 (nylon 6) product. It is available in North America.
Features include:
flame retardant/rated flame
Rapid Prototyping Cycle

General Information				
Features		Fast molding cycle		
Forms		Particle		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.14	--	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	44	--	g/10 min	ASTM D1238
Molding Shrinkage - Flow				ASTM D955
1.00 mm	0.40 - 0.70	--	%	ASTM D955
3.00 mm	1.2 - 1.4	--	%	ASTM D955
Water Absorption				ASTM D570
24 hr	1.8	--	%	ASTM D570
Equilibrium, 65% RH	3.5	--	%	ASTM D570
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	120	110	MPa	ASTM D638
Yield, 23°C	90.0	45.0	MPa	ASTM D638
Yield, 80°C	35.0	25.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	30	200	%	ASTM D638
Flexural Modulus				ASTM D790
-40°C	4000	3600	MPa	ASTM D790
23°C	3200	1100	MPa	ASTM D790
80°C	900	500	MPa	ASTM D790
Flexural Strength				ASTM D790
Yield, -40°C	140	125	MPa	ASTM D790
Yield, 23°C	113	49.0	MPa	ASTM D790
Yield, 80°C	55.0	30.0	MPa	ASTM D790
Compressive Strength (23°C)	85.0	--	MPa	ASTM D695

Taber Abrasion Resistance (1000 Cycles, CS-17 Wheel)	5.00	--	mg	ASTM D1044
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact				ASTM D256
-40°C	30	45	J/m	ASTM D256
23°C	50	390	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, not annealed	180	--	°C	ASTM D648
1.8 MPa, not annealed	75.0	--	°C	ASTM D648
CLTE - Flow	8.3E-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)	18	12	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	3.80	8.00		ASTM D150
Dissipation Factor (1 kHz)	0.020	--		ASTM D150
Arc Resistance	125	105	sec	ASTM D495
Comparative Tracking Index	600	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating	HB	--		UL 94
Additional Information				

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Comparative Tracking Index, IEC Method: >600 V

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Tensile Elongation, ASTM D638, 23°C: >200 %Volume Resistivity, ASTM D257: 1e9 to 1e10 ohm-mComparative Tracking Index, IEC Method: >600 V

Injection	Dry	Unit	
Processing (Melt) Temp	240 - 260		°C
Mold Temperature	80.0		°C
Injection Pressure	30.0 - 40.0		MPa

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