

GLAMIDE® T-422-02

Polyamide 6
TOYOBO America, Inc.

Message:

GLAMIDE®T-422-02 is a polyamide 6 (nylon 6) product, which contains a 35% mineral filler. It is available in North America.

Features include:

flame retardant/rated flame

Hard

Heat resistance

General Information				
UL YellowCard		E51743-242482		
Filler / Reinforcement		Mineral filler, 35% filler by weight		
Features		Rigidity, high		
		Heat resistance, high		
Forms		Particle		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.42	--	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	3.0	--	g/10 min	ASTM D1238
Molding Shrinkage - Flow				ASTM D955
1.00 mm	0.10 - 0.20	--	%	ASTM D955
3.00 mm	0.30 - 0.60	--	%	ASTM D955
Water Absorption				ASTM D570
24 hr	0.70	--	%	ASTM D570
Equilibrium, 65% RH	2.3	--	%	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	115	MPa	ASTM D638
Yield, 23°C	95.0	65.0	MPa	ASTM D638
Yield, 80°C	50.0	40.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	3.2	5.0	%	ASTM D638
Flexural Modulus				ASTM D790
-40°C	8600	7500	MPa	ASTM D790
23°C	7300	5000	MPa	ASTM D790
80°C	4000	1700	MPa	ASTM D790
Flexural Strength				ASTM D790
Yield, -40°C	175	165	MPa	ASTM D790

Yield, 23°C	145	96.0	MPa	ASTM D790
Yield, 80°C	80.0	55.0	MPa	ASTM D790
Compressive Strength (23°C)	100	69.0	MPa	ASTM D695
Taber Abrasion Resistance (1000 Cycles, CS-17 Wheel)	30.0	--	mg	ASTM D1044
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact				ASTM D256
-40°C	58	70	J/m	ASTM D256
23°C	95	270	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, not annealed	210	--	°C	ASTM D648
1.8 MPa, not annealed	175	--	°C	ASTM D648
CLTE - Flow	4.5E-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)	29	20	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 (1.50 mm)	HB	--		UL 94
Additional Information				
干燥				
Comparative Tracking Index, IEC Method: >600 V				
调节后的				
Comparative Tracking Index, IEC Method: >600 V				
Injection	Dry	Unit		
Processing (Melt) Temp	260 - 290		°C	
Mold Temperature	60.0 - 100		°C	
Injection Pressure	40.0 - 80.0		MPa	

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