

GLAMIDE® T-521

Polyamide 6
TOYOBO America, Inc.

Message:

GLAMIDE®T-521 is a polyamide 6 (nylon 6) product, which contains 30% glass and mineral. It is available in North America.

Features include:

flame retardant/rated flame

Hard

Good dimensional stability

General Information				
UL YellowCard		E51743-242488		
Filler / Reinforcement		Glass \mineral, 30% filler by weight		
Features		Good dimensional stability		
		Rigidity, high		
Forms		Particle		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.37	--	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)	15	--	g/10 min	ASTM D1238
Molding Shrinkage - Flow				ASTM D955
1.00 mm	0.20 - 0.40	--	%	ASTM D955
3.00 mm	0.40 - 0.70	--	%	ASTM D955
Water Absorption				ASTM D570
24 hr	1.1	--	%	ASTM D570
Equilibrium, 65% RH	2.5	--	%	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	158	135	MPa	ASTM D638
Yield, 23°C	132	77.0	MPa	ASTM D638
Yield, 80°C	56.0	42.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	3.8	5.8	%	ASTM D638
Flexural Modulus				ASTM D790
-40°C	8400	7200	MPa	ASTM D790
23°C	6700	3800	MPa	ASTM D790
80°C	3100	2800	MPa	ASTM D790
Flexural Strength				ASTM D790
Yield, -40°C	245	130	MPa	ASTM D790

Yield, 23°C	180	105	MPa	ASTM D790
Yield, 80°C	120	70.0	MPa	ASTM D790
Compressive Strength (23°C)	125	--	MPa	ASTM D695
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact				ASTM D256
-40°C	40	70	J/m	ASTM D256
23°C	65	190	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, not annealed	217	--	°C	ASTM D648
1.8 MPa, not annealed	190	--	°C	ASTM D648
CLTE - Flow	2.4E-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)	26	20	kV/mm	ASTM D149
Arc Resistance	120	100	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 - 280		°C	
Mold Temperature	60.0		°C	
Injection Pressure	30.0 - 60.0		MPa	

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Recommended distributors for this material

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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