

GLAMIDE® TY-145TZ

Polyamide 6
TOYOBO America, Inc.

Message:

GLAMIDE®TY-145TZ is a polyamide 6 (nylon 6) product, which contains a 25% mineral filler. It is available in North America. The main characteristics are: flame retardant/rated flame.

General Information				
Filler / Reinforcement		Mineral filler, 25% filler by weight		
Features		Good liquidity		
Forms		Particle		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.33	--	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	15	--	g/10 min	ASTM D1238
Molding Shrinkage - Flow				ASTM D955
1.00 mm	0.20 - 0.30	--	%	ASTM D955
3.00 mm	0.40 - 0.80	--	%	ASTM D955
Water Absorption				ASTM D570
24 hr	0.80	--	%	ASTM D570
Equilibrium, 65% RH	2.7	--	%	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	107	102	MPa	ASTM D638
Yield, 23°C	85.0	58.0	MPa	ASTM D638
Yield, 80°C	45.0	36.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	5.0	8.0	%	ASTM D638
Flexural Modulus				ASTM D790
-40°C	8000	7000	MPa	ASTM D790
23°C	6800	4600	MPa	ASTM D790
80°C	3700	1500	MPa	ASTM D790
Flexural Strength				ASTM D790
Yield, -40°C	168	158	MPa	ASTM D790
Yield, 23°C	140	93.0	MPa	ASTM D790
Yield, 80°C	78.0	53.0	MPa	ASTM D790
Compressive Strength (23°C)	97.0	66.0	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	54	68	J/m	ASTM D256
23°C	80	260	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, not annealed	207	--	°C	ASTM D648
1.8 MPa, not annealed	155	--	°C	ASTM D648
CLTE - Flow	5.5E-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)	25	17	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	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	260 - 290	°C
Mold Temperature	60.0 - 100	°C
Injection Pressure	30.0 - 60.0	MPa

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