

GLAMIDE® TY-592GHV

Polyamide 6
TOYOBO America, Inc.

Message:

GLAMIDE®TY-592GHV is a polyamide 6 (nylon 6) product, which contains a 55% glass fiber reinforced material. It is available in North America.
Features include:
flame retardant/rated flame
Flame Retardant

General Information				
UL YellowCard		E51743-242507		
Filler / Reinforcement		Glass fiber reinforced material, 55% filler by weight		
Additive		Halogen		
Features		Aroma		
		Halogenated		
		Flame retardancy		
Forms		Particle		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.81	--	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	4.0	--	g/10 min	ASTM D1238
Molding Shrinkage - Flow				ASTM D955
1.00 mm	0.10 - 0.30	--	%	ASTM D955
3.00 mm	0.30 - 0.60	--	%	ASTM D955
Water Absorption				ASTM D570
24 hr	0.10	--	%	ASTM D570
Equilibrium, 65% RH	0.80	--	%	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	295	280	MPa	ASTM D638
Yield, 23°C	245	230	MPa	ASTM D638
Yield, 80°C	170	90.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	1.8	--	%	ASTM D638
Flexural Modulus				ASTM D790
-40°C	19000	18000	MPa	ASTM D790
23°C	17500	17000	MPa	ASTM D790
80°C	15000	8100	MPa	ASTM D790
Flexural Strength				ASTM D790

Yield, -40°C	400	380	MPa	ASTM D790
Yield, 23°C	330	310	MPa	ASTM D790
Yield, 80°C	230	125	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact				ASTM D256
-40°C	140	140	J/m	ASTM D256
23°C	150	180	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, not annealed	270	--	°C	ASTM D648
1.8 MPa, not annealed	264	--	°C	ASTM D648
CLTE - Flow	1.6E-5	--	cm/cm/°C	ASTM D696
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (2.00 mm)	26	25	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	4.30	--		ASTM D150
Dissipation Factor (1 kHz)	0.010	--		ASTM D150
Arc Resistance	25.0	25.0	sec	ASTM D495
Comparative Tracking Index	350	350	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.750 mm)	V-0	--		UL 94
Additional Information				
干燥 HDT 0.46MPa, ASTM D648: >270 °C				
Injection	Dry	Unit		
Processing (Melt) Temp	310 - 330		°C	
Mold Temperature	150		°C	
Injection Pressure	135		MPa	

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