

GLAMIDE® TY-181GC

Polyamide 6 Elastomer

TOYOBO America, Inc.

Message:

GLAMIDE® TY-181GC is a Polyamide 6 Elastomer (Nylon 6 Elast) product filled with 43% glass fiber. It is available in North America.

Characteristics include:

- Flame Rated
- Good Toughness
- Rigid

General Information				
Filler / Reinforcement		Glass Fiber,43% Filler by Weight		
Features		Good Toughness		
		High Rigidity		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.46	--	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	6.0	--	g/10 min	ASTM D1238
Molding Shrinkage - Flow				ASTM D955
1.00 mm	0.10 to 0.30	--	%	
3.00 mm	0.30 to 0.60	--	%	
Water Absorption				ASTM D570
24 hr	0.80	--	%	
Equilibrium, 65% RH	1.6	--	%	
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	280	240	MPa	
Yield, 23°C	170	115	MPa	
Yield, 80°C	110	84.0	MPa	
Tensile Elongation (Break, 23°C)	3.6	4.0	%	ASTM D638
Flexural Modulus				ASTM D790
-40°C	13000	11700	MPa	
23°C	9800	6000	MPa	
80°C	5600	4000	MPa	
Flexural Strength				ASTM D790
Yield, -40°C	345	288	MPa	
Yield, 23°C	245	160	MPa	

Yield, 80°C	130	87.0	MPa	
Compressive Strength (23°C)	140	--	MPa	ASTM D695
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact				ASTM D256
-40°C	170	190	J/m	
23°C	330 J/m	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	230	--	°C	
1.8 MPa, Unannealed	218	--	°C	
CLTE - Flow	2.4E-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)	25	19	kV/mm	ASTM D149
Arc Resistance	90.0	83.0	sec	ASTM D495
Comparative Tracking Index	575	575	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating	HB	--		UL 94
Injection	Dry	Unit		
Processing (Melt) Temp	280		°C	
Mold Temperature	80.0 to 100		°C	
Injection Pressure	30.0 to 70.0		MPa	

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