

GLAMIDE® TY-502NZ

Polyamide 6 Elastomer

TOYOBO America, Inc.

Message:

GLAMIDE®TY-502NZ is a polyamide 6 elastomer (nylon 6 elastomer) product. It is available in North America. The main characteristics are: flame retardant/rated flame.

General Information				
Features		Aroma		
Forms		Particle		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.18	--	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	7.0	--	g/10 min	ASTM D1238
Molding Shrinkage - Flow				ASTM D955
1.00 mm	0.20 - 0.40	--	%	ASTM D955
3.00 mm	0.50 - 0.80	--	%	ASTM D955
Water Absorption				ASTM D570
24 hr	0.70	--	%	ASTM D570
Equilibrium, 65% RH	1.9	--	%	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	110	106	MPa	ASTM D638
Yield, 23°C	90.0	85.0	MPa	ASTM D638
Yield, 80°C	50.0	28.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	20	20	%	ASTM D638
Flexural Modulus				ASTM D790
-40°C	4500	4200	MPa	ASTM D790
23°C	3500	3400	MPa	ASTM D790
80°C	2500	1000	MPa	ASTM D790
Flexural Strength				ASTM D790
Yield, -40°C	160	155	MPa	ASTM D790
Yield, 23°C	145	130	MPa	ASTM D790
Yield, 80°C	80.0	45.0	MPa	ASTM D790
Compressive Strength (23°C)				
	100	--	MPa	ASTM D695
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact				ASTM D256

-40°C	70	70	J/m	ASTM D256
23°C	120	60	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, not annealed	170	--	°C	ASTM D648
1.8 MPa, not annealed	100	--	°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+15	ohms·cm	ASTM D257
Dielectric Strength (2.00 mm)	23	22	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	4.00	4.00		ASTM D150
Arc Resistance	130	130	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	305 - 320	°C
Mold Temperature	90.0	°C
Injection Pressure	30.0 - 40.0	MPa

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