

GLAMIDE® TY-102ND

Polyamide 6 Elastomer

TOYOBO America, Inc.

Message:

GLAMIDE®TY-102ND is a polyamide 6 elastomer (nylon 6 elastomer) product. It is available in North America.

Features include:

flame retardant/rated flame

Good toughness

General Information				
Features		Ultra high toughness		
Forms		Particle		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.09	--	g/cm ³	ASTM D792
Molding Shrinkage - Flow				ASTM D955
1.00 mm	0.70 - 1.0	--	%	ASTM D955
3.00 mm	1.5 - 2.0	--	%	ASTM D955
Water Absorption				ASTM D570
24 hr	1.0	--	%	ASTM D570
Equilibrium, 65% RH	2.9	--	%	ASTM D570
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	102	--		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength				ASTM D638
Yield, -40°C	85.0	74.0	MPa	ASTM D638
Yield, 23°C	50.0	27.0	MPa	ASTM D638
Yield, 80°C	21.0	15.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	200	200	%	ASTM D638
Flexural Modulus				ASTM D790
-40°C	2700	2300	MPa	ASTM D790
23°C	2000	800	MPa	ASTM D790
80°C	600	200	MPa	ASTM D790
Flexural Strength				ASTM D790
Yield, -40°C	94.0	87.0	MPa	ASTM D790
Yield, 23°C	75.0	35.0	MPa	ASTM D790
Yield, 80°C	27.0	17.0	MPa	ASTM D790
Taber Abrasion Resistance (1000 Cycles, CS-17 Wheel)	8.00	--	mg	ASTM D1044
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact				ASTM D256

-40°C	150	180	J/m	ASTM D256
23°C	310 J/m	No Break		ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, not annealed	150	--	°C	ASTM D648
1.8 MPa, not annealed	58.0	--	°C	ASTM D648
CLTE - Flow	8.7E-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)	18	14	kV/mm	ASTM D149
Arc Resistance	125	108	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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Tensile Elongation, ASTM D638, 23°C: >200 %Comparative Tracking Index, IEC Method: >600 V

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Tensile Elongation, ASTM D638, 23°C: >200 %Comparative Tracking Index, IEC Method: >600 V

Injection	Dry	Unit
Processing (Melt) Temp	245 - 285	°C
Mold Temperature	50.0 - 80.0	°C
Injection Pressure	40.0 - 80.0	MPa

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