

GLAMIDE® T-661

Polyamide 66

TOYOBO America, Inc.

Message:

GLAMIDE®T-661 is a polyamide 66 (nylon 66) product. It is available in North America. The main characteristics are: flame retardant/rated flame.

General Information				
UL YellowCard		E51743-242500		
Forms		Particle		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.14	--	g/cm ³	ASTM D792
Molding Shrinkage - Flow				ASTM D955
1.00 mm	0.60 - 1.2	--	%	ASTM D955
3.00 mm	1.5 - 2.2	--	%	ASTM D955
Water Absorption				ASTM D570
24 hr	1.2	--	%	ASTM D570
Equilibrium, 65% RH	2.5	--	%	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	116	110	MPa	ASTM D638
Yield, 23°C	82.0	50.0	MPa	ASTM D638
Yield, 80°C	38.0	28.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	120	200	%	ASTM D638
Flexural Modulus				ASTM D790
-40°C	4300	4000	MPa	ASTM D790
23°C	2900	1400	MPa	ASTM D790
80°C	1000	600	MPa	ASTM D790
Flexural Strength				ASTM D790
Yield, -40°C	140	120	MPa	ASTM D790
Yield, 23°C	117	66.0	MPa	ASTM D790
Yield, 80°C	66.0	40.0	MPa	ASTM D790
Compressive Strength (23°C)	90.0	--	MPa	ASTM D695
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	35	40	J/m	ASTM D256
23°C	45	300	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, not annealed	230	--	°C	ASTM D648
1.8 MPa, not annealed	80.0	--	°C	ASTM D648
CLTE - Flow	8.0E-5	--	cm/cm/°C	ASTM D696
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	1.0E+13	ohms·cm	ASTM D257
Dielectric Strength (2.00 mm)	20	13	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	3.90	6.50		ASTM D150
Arc Resistance	55.0	45.0	sec	ASTM D495
Comparative Tracking Index	600	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.750 mm)	HB	--		UL 94
Additional Information				

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Comparative Tracking Index, IEC Method: >600 V

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Tensile Elongation, ASTM D638, 23°C: >200 %Volume Resistivity, ASTM D257: 10e10 to 10e11 ohm-mComparative Tracking Index, IEC Method: >600 V

Injection	Dry	Unit
Processing (Melt) Temp	270 - 290	°C
Mold Temperature	40.0 - 80.0	°C
Injection Pressure	30.0 - 40.0	MPa

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