

GLAMIDE® T-663G15

Polyamide 66

TOYOBO America, Inc.

Message:

GLAMIDE®T-663G15 is a polyamide 66 (nylon 66) product, which contains a 15% glass fiber reinforced material. It is available in North America. The main characteristics are: flame retardant/rated flame.

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 15% filler by weight		
Forms		Particle		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.26	--	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	10	--	g/10 min	ASTM D1238
Molding Shrinkage - Flow				ASTM D955
1.00 mm	0.70 - 1.0	--	%	ASTM D955
3.00 mm	0.80 - 1.1	--	%	ASTM D955
Water Absorption				ASTM D570
24 hr	1.0	--	%	ASTM D570
Equilibrium, 65% RH	2.1	--	%	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	160	145	MPa	ASTM D638
Yield, 23°C	120	90.0	MPa	ASTM D638
Yield, 80°C	60.0	45.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	3.5	7.0	%	ASTM D638
Flexural Modulus				ASTM D790
-40°C	6200	5900	MPa	ASTM D790
23°C	5400	3500	MPa	ASTM D790
80°C	2500	2100	MPa	ASTM D790
Flexural Strength				ASTM D790
Yield, -40°C	200	170	MPa	ASTM D790
Yield, 23°C	160	120	MPa	ASTM D790
Yield, 80°C	100	75.0	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact				ASTM D256
-40°C	50	55	J/m	ASTM D256
23°C	70	110	J/m	ASTM D256

Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, not annealed	262	--	°C	ASTM D648
1.8 MPa, not annealed	245	--	°C	ASTM D648
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	1.0E+13	ohms·cm	ASTM D257
Dielectric Strength (2.00 mm)	24	18	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	4.00	--		ASTM D150
Dissipation Factor (1 kHz)	0.010	--		ASTM D150
Arc Resistance	110	90.0	sec	ASTM D495
Comparative Tracking Index	575	575	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating	HB	--		UL 94

Additional Information

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Volume Resistivity, ASTM D257: 1e10 to 1e11 ohm-m

Injection	Dry	Unit
Processing (Melt) Temp	280 - 310	°C
Mold Temperature	60.0	°C
Injection Pressure	30.0 - 60.0	MPa

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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