

GLAMIDE® NB-5620S

Polyamide

TOYOBO America, Inc.

Message:

GLAMIDE®NB-5620S is a polyamide product that contains 15% mineral fillers. It is available in North America. The main characteristics are: flame retardant/rated flame.

General Information				
Filler / Reinforcement		Mineral filler, 15% filler by weight		
Forms		Particle		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.17	--	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	8.0	--	g/10 min	ASTM D1238
Molding Shrinkage - Flow				ASTM D955
1.00 mm	0.60 - 0.80	--	%	ASTM D955
3.00 mm	1.4 - 1.8	--	%	ASTM D955
Water Absorption				ASTM D570
24 hr	0.50	--	%	ASTM D570
Equilibrium, 65% RH	2.1	--	%	ASTM D570
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	116	--		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength				ASTM D638
Yield, -40°C	100	90.0	MPa	ASTM D638
Yield, 23°C	60.0	52.0	MPa	ASTM D638
Yield, 80°C	25.0	22.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	8.0	--	%	ASTM D638
Flexural Modulus				ASTM D790
-40°C	6200	5400	MPa	ASTM D790
23°C	3700	2300	MPa	ASTM D790
80°C	2800	1400	MPa	ASTM D790
Flexural Strength				ASTM D790
Yield, -40°C	160	152	MPa	ASTM D790
Yield, 23°C	95.0	79.0	MPa	ASTM D790
Yield, 80°C	40.0	30.0	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact				ASTM D256
-40°C	40	60	J/m	ASTM D256
23°C	54	220	J/m	ASTM D256

Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, not annealed	180	--	°C	ASTM D648
1.8 MPa, not annealed	102	--	°C	ASTM D648
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	1.0E+12	ohms·cm	ASTM D257
Dielectric Strength (2.00 mm)	25	21	kV/mm	ASTM D149
Arc Resistance	130	120	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	240 - 290	°C
Mold Temperature	50.0 - 120	°C
Injection Pressure	50.0	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

