LNP™ THERMOTUF™ Compound PX95726

PDX-P-95726

DESCRIPTION

LNP THERMOTUF PX95726 compound is based on Nylon 6 resin containing 15% glass fiber. Added features of this grade include: Heat Stabilized, Impact Modified.

GENERAL INFORMATION	
Features	Heat Stabilized, Impact resistant, No PFAS intentionally added
Fillers	Glass Fiber (Total fluorine >50ppm only from inorganic fluorine)
Polymer Types	Polyamide 6 (Nylon 6)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Building and Construction	Building Component
Consumer	Sport/Leisure, Personal Accessory, Home Appliances, Commercial Appliance
Electrical and Electronics	Mobile Phone - Computer - Tablets
Industrial	Electrical

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Stress, break	107	MPa	ASTM D638
Tensile Stress, yld, Type I, 5 mm/min	111	MPa	ASTM D638
Tensile Stress, brk, Type I, 5 mm/min	108	MPa	ASTM D638
Tensile Strain, yld, Type I, 5 mm/min	3.1	%	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	3.7	%	ASTM D638
Tensile Modulus, 50 mm/min	5830	MPa	ASTM D638
Flexural Stress	170	MPa	ASTM D790
Flexural Stress, yld, 1.3 mm/min, 50 mm span	173	MPa	ASTM D790
Flexural Modulus	5030	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	4960	MPa	ASTM D790
Tensile Stress, yield, 5 mm/min	109	MPa	ISO 527
Tensile Stress, break, 5 mm/min	105	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	3	%	ISO 527
Tensile Strain, break, 5 mm/min	3.8	%	ISO 527
Tensile Modulus, 1 mm/min	5790	MPa	ISO 527
Flexural Stress	160	MPa	ISO 178
Flexural Modulus, 2 mm/min	4790	MPa	ISO 178
IMPACT [1]			
Izod Impact, unnotched, 23°C	876	J/m	ASTM D4812
Izod Impact, notched, 23°C	67	J/m	ASTM D256

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Multiaxial Impact	2	J	ISO 6603
Instrumented Dart Impact Total Energy, 23°C	11	J	ASTM D3763
Izod Impact, unnotched 80*10*4 +23°C	53	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	6	kJ/m²	ISO 180/1A
THERMAL (1)			
HDT, 1.82 MPa, 3.2mm, unannealed	201	°C	ASTM D648
CTE, -30°C to 30°C, flow	4.4E-05	1/°C	ASTM D696
CTE, -30°C to 30°C, xflow	1.38E-04	1/°C	ASTM D696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	214	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	191	°C	ISO 75/Af
PHYSICAL (1)			
Specific Gravity	1.22	-	ASTM D792
Density	1.22	g/cm³	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	1.1	%	ASTM D570
Mold Shrinkage, flow, 24 hrs (2)	0.3 – 0.6	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs (2)	0.8 – 1.1	%	ASTM D955
Moisture Absorption (23°C / 50% RH)	1.6	%	ISO 62
INJECTION MOLDING (3)			
Drying Temperature	80	°C	
Drying Time	4	Hrs	
Maximum Moisture Content	0.15 – 0.25	%	
Melt Temperature	265 – 275	°C	
Front - Zone 3 Temperature	275 – 290	°C	
Middle - Zone 2 Temperature	265 – 275	°C	
Rear - Zone 1 Temperature	250 – 260	°C	
Mold Temperature	80 – 95	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	30 – 60	rpm	

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

(3) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

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