LNP™ THERMOCOMP™ Compound PX92248

PDX-P-92248

DESCRIPTION

LNP THERMOCOMP PX92248 compound is based on Nylon 6 resin containing 30% glass fiber. Added features of this grade include: Improved Impact, UV Stabilized.

GENERAL INFORMATION	
Features	High stiffness/Strength, Impact resistant, Weatherable/UV stable, 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, 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, brk, Type I, 5 mm/min	107	MPa	ASTM D638
Tensile Strain, break	2.5	%	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	2.5	%	ASTM D638
Tensile Modulus, 50 mm/min	8840	MPa	ASTM D638
Flexural Stress	179	MPa	ASTM D790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	179	MPa	ASTM D790
Flexural Modulus	7220	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	7220	MPa	ASTM D790
IMPACT [1]			
Izod Impact, unnotched, 23°C	843	J/m	ASTM D4812
Izod Impact, notched, 23°C	138	J/m	ASTM D256
THERMAL [1]			
HDT, 1.82 MPa, 3.2mm, unannealed	195	°C	ASTM D648
PHYSICAL [1]			
Density	1.34	g/cm³	ASTM D792
Mold Shrinkage, flow, 24 hrs [2]	0.2	%	ASTM D955
INJECTION MOLDING [3]			
Drying Temperature	80	°C	
Drying Time	4	Hrs	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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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