LNP™ THERMOCOMP™ AM Compound EZ006EXAR1

DESCRIPTION

LNP THERMOCOMP EZ006EXAR1is a compound based on Polyetherimide (PEI) resin containing 30% milled glass fiber for Large Format Additive manufacturing (LFAM) applications requiring better dimensional stability and low thermal expansion. PEI compounds, based on SABIC's inherently flame-retardant ULTEM™ resins, offer high temperature performance, excellent strength-to-weight ratio, high modulus and low creep.

GENERAL INFORMATION	
Features	Flame Retardant, Creep resistant, Dimensional stability, High stiffness/Strength, High temperature resistance, No PFAS intentionally added, Additive Manufacturing
Fillers	Glass Fiber (Total fluorine >50ppm only from inorganic fluorine)
Brands	LNP™ THERMOCOMP™
Polymer Types	Polyetherimide (PEI)

INDUSTRY	SUB INDUSTRY
Industrial	Industrial General

TYPICAL PROPERTY VALUES

Revision 20251217

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, 5mm/min [1]			
XZ Orientation	84	MPa	ASTM D638 Modified
ZX Orientation	45	MPa	ASTM D638 Modified
Tensile Strain, 5mm/min			
XZ Orientation	2.4	%	ASTM D638 Modified
ZX Orientation	1.5	%	ASTM D638 Modified
Tensile Stiffness, 5mm/min			
XZ Orientation [2]	5.8	GPa	ASTM D638 Modified
ZX Orientation	3.5	GPa	ASTM D638 Modified
Flexural Stress, 5mm/min			
XZ Orientation	67	MPa	ASTM D790 Modified
ZX Orientation	131	MPa	ASTM D790 Modified
THERMAL			
HDT, 1.82 MPa, 6.4 mm, unannealed	207	°C	ASTM D648
PHYSICAL			
Specific Gravity	1.51	-	ASTM D792
EXTRUSION			
Extruder L/D	24	-	
Drying Temperature	150	°C	
Drying Time	4 – 6	Hrs	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Maximum Moisture Content	.02	%	
Barrel - Zone 1 Temperature	320 – 360	°C	
Barrel - Zone 2 Temperature	330 – 370	°C	
Barrel - Zone 3 Temperature	340 – 380	°C	
Barrel - Zone 4 Temperature	350 – 400	°C	
Nozzle Temperature	360 – 400	°C	
Melt Temperature	360 – 400	°C	
Bed Temperature	80 – 150	°C	
Extruder Pressure	<13.5	MPa	

(1) Modified ASTM E8 used for tensile test samples

(2) Tensile Stiffness (K) is structural property defined as the stress/strain in the linear region of the stress-strain curve. Value depends on the geometry/shape and boundary/surrounding conditions

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