LNP™ THERMOCOMP™ COMPOUND EX00781H

FORMERLY KNOWN AS "PDX-E-00781 EES"
REGION EUROPE

DESCRIPTION

LNP THERMOCOMP EX00781H is a compound is based on Polyetherimide (PEI) resin containing 20% glass fiber. Added features of this grade include: Healthcare.

GENERAL INFORMATION	
Features	Healthcare/Formula lock, High stiffness/Strength, High temperature resistance, No PFAS intentionally added
Fillers	Glass Fiber
Polymer Types	Polyetherimide (PEI)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Hygiene and Healthcare	Pharmaceutical Packaging and Drug Delivery, Surgical devices, General Healthcare, Patient Testing
Packaging	Industrial Packaging

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Stress, yld, Type I, 5 mm/min	91	MPa	ASTM D638
Tensile Stress, brk, Type I, 5 mm/min	90	MPa	ASTM D638
Tensile Strain, yld, Type I, 5 mm/min	5.9	%	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	5.3	%	ASTM D638
Tensile Modulus, 5 mm/min	3320	MPa	ASTM D638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	145	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	3150	MPa	ASTM D790
Tensile Stress, yield, 5 mm/min	91	MPa	ISO 527
Tensile Stress, break, 5 mm/min	89	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	5.4	%	ISO 527
Tensile Strain, break, 5 mm/min	6	%	ISO 527
Tensile Modulus, 1 mm/min	3250	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	148	MPa	ISO 178
Flexural Modulus, 2 mm/min	3310	MPa	ISO 178
IMPACT [1]			
Izod Impact, notched, 23°C	37	J/m	ASTM D256
Izod Impact, notched 80*10*4 +23°C	4	kJ/m²	ISO 180/1A
THERMAL [1]			
HDT, 1.82 MPa, 3.2mm, unannealed	189	°C	ASTM D648
Vicat Softening Temp, Rate B/120	213	°C	ISO 306

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	189	°C	ISO 75/Af
PHYSICAL [1]			
Specific Gravity	1.31	-	ASTM D792
Melt Flow Rate, 337°C/6.6 kgf	12.3	g/10 min	ASTM D1238
Density	1.31	g/cm³	ISO 1183
Melt Volume Rate, MVR at 340°C/5.0 kg	10	cm³/10 min	ISO 1133
INJECTION MOLDING [2]			
Drying Temperature	150	°C	
Drying Time	4 – 6	Hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	360 – 400	°C	
Rear - Zone 1 Temperature	360 – 380	°C	
Middle - Zone 2 Temperature	370 – 390	°C	
Front - Zone 3 Temperature	380 – 400	°C	
Nozzle Temperature	390 – 400	°C	
Mold Temperature	140 – 180	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw speed (Circumferential speed)	0.2 – 0.3	m/s	
Vent Depth	0.025 – 0.076	mm	

(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) 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.

ADDITIONAL PRODUCT NOTES

No PFAS intentionally added: The grade listed in this document does not contain PFAS intentionally added during Seller's manufacturing process and is not expected to contain unintentional PFAS impurities. Each user is responsible for evaluating the presence of unintentional PFAS impurities.

DISCLAIMER