

LNP™ THERMOCOMP™ EX00781H compound

Polyether Imide

SABIC Innovative Plastics

Message:

LNP THERMOCOMP EX00781H is a compound based on Polyetherimide containng Proprietary Filler(s). Added feature of this material is: Healthcare.

Also known as: LNP* THERMOCOMP* Compound PDX-E-00781 EES

Product reorder name: EX00781H

General Information			
Filler / Reinforcement	Proprietary		
Uses	Medical/Healthcare Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (337°C/6.6 kg)	12	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (340°C/5.0 kg)	10.4	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3330	MPa	ASTM D638
--	3250	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	91.0	MPa	ASTM D638
Yield	91.2	MPa	ISO 527-2/5
Break ³	90.4	MPa	ASTM D638
Break	89.7	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	5.9	%	ASTM D638
Yield	5.5	%	ISO 527-2/5
Break ⁵	5.3	%	ASTM D638
Break	6.0	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	3150	MPa	ASTM D790
-- ⁷	3310	MPa	ISO 178
Flexural Stress			
--	148	MPa	ISO 178
Yield, 50.0 mm Span ⁸	145	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	37	J/m	ASTM D256
23°C ⁹	4.5	kJ/m ²	ISO 180/1A

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	189	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	190	°C	ISO 75-2/Af
Vicat Softening Temperature	213	°C	ISO 306/B120

Injection	Nominal Value	Unit
Drying Temperature	121 to 149	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	343 to 354	°C
Middle Temperature	354 to 366	°C
Front Temperature	366 to 377	°C
Processing (Melt) Temp	360 to 366	°C
Mold Temperature	121 to 149	°C
Back Pressure	0.344 to 0.689	MPa
Screw Speed	60 to 100	rpm

NOTE	
1.	5.0 mm/min
2.	Type I, 5.0 mm/min
3.	Type I, 5.0 mm/min
4.	Type I, 5.0 mm/min
5.	Type I, 5.0 mm/min
6.	1.3 mm/min
7.	2.0 mm/min
8.	1.3 mm/min
9.	80*10*4
10.	80*10*4 mm

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