

LNP™ THERMOCOMP™ EX93452 compound

Polyether Imide

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* EX93452 is a compound based on Polyetherimide resin containing Proprietary Fillers. Added features of this material include:
Electrically Conductive.

Also known as: LNP* THERMOCOMP* Compound PDX-E-93452

Product reorder name: EX93452

General Information			
Filler / Reinforcement	Proprietary		
Features	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.39	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.020 to 0.040	%	
Across Flow : 24 hr	0.30 to 0.50	%	
Water Absorption			
24 hr, 50% RH	0.14	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.24	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	19900	MPa	ASTM D638
--	18500	MPa	ISO 527-2/1
Tensile Strength			
Break ²	214	MPa	ASTM D638
Break	205	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	1.5	%	ASTM D638
Break	1.4	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	16500	MPa	ASTM D790
-- ⁵	17100	MPa	ISO 178
Flexural Stress			
--	283	MPa	ISO 178
Break, 50.0 mm Span ⁶	281	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	52	J/m	ASTM D256
23°C ⁷	5.7	kJ/m ²	ISO 180/1A

Unnotched Izod Impact			
23°C	470	J/m	ASTM D4812
23°C ⁸	29	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	11.0	J	ASTM D3763
--	3.10	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	219	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	219	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	214	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	214	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	2.9E-5	cm/cm/°C	
Transverse : -30 to 30°C	2.7E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0 to 6.0	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.	50 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	80*10*4		
8.	80*10*4		
9.	80*10*4 mm		
10.	80*10*4 mm		

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