

LNP™ THERMOCOMP™ OF008E compound

Linear Polyphenylene Sulfide

SABIC Innovative Plastics

Message:

LNP THERMOCOMP OF008E is a compound based on PPS - Linear resin containing Glass Fiber. Added features include: Easy Molding.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	Good formability		
	Linear polymer structure		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.65	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Vertical flow direction: 24 hours	0.80 - 1.2	%	ISO 294-4
Flow direction: 24 hours	0.20 - 0.40	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.010	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12900	MPa	ISO 527-2/1
Tensile Stress (Break)	177	MPa	ISO 527-2/5
Tensile Strain (Break)	1.8	%	ISO 527-2/5
Flexural Modulus ¹	12300	MPa	ISO 178
Flexural Stress	251	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ² (23°C)	10	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	45	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴ (1.8 MPa, Unannealed, 64.0 mm Span)	265	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	2.2E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	4.9E-5	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	121 - 149	°C	
Drying Time	4.0	hr	
Rear Temperature	304 - 316	°C	
Middle Temperature	321 - 332	°C	
Front Temperature	332 - 343	°C	

Processing (Melt) Temp	316 - 321	°C
Mold Temperature	138 - 166	°C
Back Pressure	0.172 - 0.344	MPa
Screw Speed	30 - 60	rpm

NOTE

- | | |
|----|------------|
| 1. | 2.0 mm/min |
| 2. | 80*10*4 |
| 3. | 80*10*4 |
| 4. | 80*10*4 mm |

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