

LNP™ THERMOCOMP™ OCF62E compound

Branched Polyphenylene Sulfide

SABIC Innovative Plastics

Message:

LNP THERMOCOMP OCF62E is a compound based on PPS-Branched resin containing 10% Carbon Fiber, 30% Glass Fiber. Added feature of this material includes: Easy Molding

Also known as: LNP* THERMOCOMP* Compound OCF-1008 EM

Product reorder name: OCF62E

General Information			
Filler / Reinforcement	Carbon Fiber,10% Filler by Weight		
	Glass Fiber,30% Filler by Weight		
Features	Branched Polymer Structure		
	Good Moldability		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.66	g/cm ³	ISO 1183, ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.10 to 0.40	%	
Across Flow : 24 hr	0.70 to 1.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	30300	MPa	ASTM D638
--	28600	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	157	MPa	ASTM D638
Yield	133	MPa	ISO 527-2/5
Break ³	157	MPa	ASTM D638
Break	133	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	0.74	%	ASTM D638
Yield	0.56	%	ISO 527-2/5
Break ⁵	0.74	%	ASTM D638
Break	0.56	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	19100	MPa	ASTM D790
-- ⁷	20600	MPa	ISO 178
Flexural Stress			
--	46.0	MPa	ISO 178

Yield, 50.0 mm Span ⁸	206	MPa	ASTM D790
Break, 50.0 mm Span ⁹	206	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	63	J/m	ASTM D256
23°C ¹⁰	6.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	260	J/m	ASTM D4812
23°C ¹¹	14	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	280	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹²	281	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	267	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹³	268	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	1.0E-6	cm/cm/°C	ASTM E831
Flow : 23 to 60°C	1.0E-6	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	4.6E-6	cm/cm/°C	ASTM E831
Transverse : 23 to 60°C	4.6E-6	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0	hr	
Rear Temperature	304 to 316	°C	
Middle Temperature	321 to 332	°C	
Front Temperature	332 to 343	°C	
Processing (Melt) Temp	316 to 321	°C	
Mold Temperature	138 to 166	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 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.	1.3 mm/min		
10.	80*10*4		
11.	80*10*4		

12.	80*10*4 mm
13.	80*10*4 mm

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Recommended distributors for this material

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