

## SABIC Innovative Plastics LNP THERMOCOMP OCF62 PPS - Branched

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

### Material Notes:

LNP\* THERMOCOMP\* OCF62 is a compound based on PPS-Branched resin containing 10% Carbon Fiber, 30% Glass Fiber. Added feature of this material includes: Easy Molding

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-OCF62-PPS-Branched.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-OCF62-PPS-Branched.php)

Physical Properties	Metric	English	Comments
Density	1.66 g/cc	0.0600 lb/in <sup>3</sup>	ASTM D792
	1.66 g/cc	0.0600 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage, Flow	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 - 0.010 cm/cm	0.0070 - 0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	133 MPa	19300 psi	5 mm/min; ISO 527
	157 MPa	22800 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	133 MPa	19300 psi	5 mm/min; ISO 527
	157 MPa	22800 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	0.50 %	0.50 %	5 mm/min; ISO 527
	0.70 %	0.70 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	0.50 %	0.50 %	5 mm/min; ISO 527
	0.70 %	0.70 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	28.6 GPa	4150 ksi	1 mm/min; ISO 527
	30.32 GPa	4398 ksi	50 mm/min; ASTM D638
Flexural Strength	206 MPa	29900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	46.0 MPa	6670 psi	2 mm/min; ISO 178
	205 MPa	29700 psi	1.3 mm/min, 50 mm span; ASTM D790

Flexural Modulus Mechanical Properties	19.07 GPa Metric	2766 ksi English	1.3 mm/min, 50 mm span; ASTM D790 Comments
	20.56 GPa	2982 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.630 J/cm	1.18 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.60 J/cm	4.87 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	6.00 kJ/m <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	13.0 kJ/m <sup>2</sup>	6.19 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	1.02 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	0.567 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$	
	1.02 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	0.567 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	4.57 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	2.54 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	4.60 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	2.56 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	281 $\text{Å}^\circ\text{C}$	538 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	280 $\text{Å}^\circ\text{C}$	536 $\text{Å}^\circ\text{F}$	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	268 $\text{Å}^\circ\text{C}$	514 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	267 $\text{Å}^\circ\text{C}$	513 $\text{Å}^\circ\text{F}$	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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