

## SABIC Innovative Plastics LNP THERMOCOMP 4X08423 FP-P (PFA)

Category : Polymer , Thermoplastic , Fluoropolymer , PFA

### Material Notes:

LNP\* THERMOCOMP\* 4X08423 is a compound based on PFA resin containing Glass Fiber.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-4X08423-FP-P-PFA.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-4X08423-FP-P-PFA.php)

Physical Properties	Metric	English	Comments
Specific Gravity	2.20 g/cc	2.20 g/cc	ASTM D792
Density	2.20 g/cc	0.0795 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.0100 %	0.0100 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm @Time 86400 sec	>= 0.020 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.020 - 0.040 cm/cm @Time 86400 sec	0.020 - 0.040 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	36.0 MPa	5220 psi	Type I, 5 mm/min; ASTM D638
	39.0 MPa	5660 psi	5 mm/min; ISO 527
Tensile Strength, Yield	40.0 MPa	5800 psi	Type I, 5 mm/min; ASTM D638
	40.0 MPa	5800 psi	5 mm/min; ISO 527
Elongation at Break	3.4 %	3.4 %	5 mm/min; ISO 527
	3.6 %	3.6 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	3.3 %	3.3 %	Type I, 5 mm/min; ASTM D638
	3.3 %	3.3 %	5 mm/min; ISO 527
Tensile Modulus	4.60 GPa	667 ksi	1 mm/min; ISO 527
	4.67 GPa	677 ksi	5 mm/min; ASTM D638
Flexural Strength	60.0 MPa	8700 psi	ISO 178
Flexural Yield Strength	49.0 MPa	7110 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	3.30 GPa	479 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	4.37 GPa <sup>a</sup> Metric	634 ksi <sup>b</sup> English	2 mm (min): ISO 178 Comments
Izod Impact, Notched	2.59 J/cm	4.85 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.93 J/cm	11.1 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	23.0 kJ/m <sup>2</sup>	10.9 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	45.0 kJ/m <sup>2</sup>	21.4 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	10.0 J @Temperature 23.0 Â°C	7.38 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	52.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	28.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	89.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	49.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	259 Â°C	498 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	297 Â°C @Thickness 3.20 mm	567 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	158 Â°C	316 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	243 Â°C @Thickness 3.20 mm	469 Â°F @Thickness 0.126 in	unannealed; ASTM D648

## Contact Songhan Plastic Technology Co.,Ltd.

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