

## SABIC Innovative Plastics LNP Thermocomp 5X06476 FP-V (PVDF)

Category : Polymer , Thermoplastic , Fluoropolymer , PVDF

### Material Notes:

LNP\* FP-VM-3830 is a compound based on Polyvinylidene Fluoride (PVDF) containing Mineral. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-Thermocomp-5X06476-FP-V-PVDF.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-5X06476-FP-V-PVDF.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.89 g/cc	1.89 g/cc	ASTM D 792
Density	1.89 g/cc	0.0683 lb/in <sup>3</sup>	ASTM D 792
Moisture Absorption at Equilibrium	0.010 %	0.010 %	23 <sup>o</sup> C / 50% RH; ISO 62
	0.020 % @Time 86400 sec	0.020 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	35.0 MPa	5080 psi	5 mm/min; ISO 527
	37.0 MPa	5370 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	37.0 MPa	5370 psi	5 mm/min; ISO 527
	39.0 MPa	5660 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	19 %	19 %	Type I, 5 mm/min; ASTM D 638
	20.9 %	20.9 %	5 mm/min; ISO 527
Elongation at Yield	7.4 %	7.4 %	Type I, 5 mm/min; ASTM D 638
	7.4 %	7.4 %	5 mm/min; ISO 527
Tensile Modulus	2.36 GPa	342 ksi	1 mm/min; ISO 527
	2.54 GPa	368 ksi	50 mm/min; ASTM D 638
Flexural Strength	53.0 MPa	7690 psi	ISO 178

Flexural Modulus Mechanical Properties	2.20 GPa Metric	319 ksi English	2 mm/min; ISO 178 Comments
	2.32 GPa	336 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	0.420 J/cm @Temperature 23.0 Â°C	0.787 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	4.73 J/cm @Temperature 23.0 Â°C	8.86 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	6.00 kJ/mÂ² @Temperature 23.0 Â°C	2.86 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	30.0 kJ/mÂ² @Temperature 23.0 Â°C	14.3 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
	5.00 J @Temperature 23.0 Â°C	3.69 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	122 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	67.8 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
CTE, linear, Transverse to Flow	146 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	81.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	137 Â°C	279 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	143 Â°C @Thickness 3.20 mm	289 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	85.0 Â°C	185 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	99.0 Â°C @Thickness 3.20 mm	210 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

Contact Songhan Plastic Technology Co.,Ltd.

**Website : [www.lookpolymers.com](http://www.lookpolymers.com)**

**Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)**

**Tel : +86 021-51131842**

**Mobile : +86 13061808058**

**Skype : lookpolymers**

**Address : United North Road 215,Fengxian District, Shanghai City,China**