

## SABIC Innovative Plastics LNP COLORCOMP JX91550 PES

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

### Material Notes:

LNP COLORCOMP\* JX91550 is an unfilled Polyethersulfone.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-COLORCOMP-JX91550-PES.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-COLORCOMP-JX91550-PES.php)

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in <sup>3</sup>	ASTM D792
	1.49 g/cc	0.0538 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.760 %	0.760 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	53.0 MPa	7690 psi	ISO 527
	58.0 MPa	8410 psi	ASTM D638
Tensile Strength, Yield	77.0 MPa	11200 psi	ASTM D638
	78.0 MPa	11300 psi	ISO 527
Elongation at Break	13.5 %	13.5 %	ASTM D638
	23.4 %	23.4 %	ISO 527
Elongation at Yield	5.6 %	5.6 %	ASTM D638
	6.2 %	6.2 %	ISO 527
Tensile Modulus	2.83 GPa	410 ksi	1 mm/min; ISO 527
	2.93 GPa	425 ksi	50 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
	122 MPa	17700 psi	ASTM D790
Flexural Modulus	2.89 GPa	419 ksi	ASTM D790
	2.92 GPa	424 ksi	ISO 178
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	NB	NB	80*10*4; ISO 180/1U
Dart Drop, Total Energy	19.0 J	14.0 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	32.0 J	23.6 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	50.5 µm/m-°C	28.1 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	50.7 µm/m-°C	28.2 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	51.4 µm/m-°C	28.6 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 1.8 MPa (264 psi)	51.5 µm/m-°C	28.6 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	187 °C	369 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	176 °C	349 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

## Contact Songhan Plastic Technology Co.,Ltd.

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