

## SABIC Innovative Plastics EXTEM XH2315 TPI Resin

Category : Polymer , Thermoplastic , Polyimide, Thermoplastic

**Material Notes:**

Extem XH2315 Resin

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-EXTEM-XH2315-TPI-Resin.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-EXTEM-XH2315-TPI-Resin.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.52 g/cc	1.52 g/cc	ASTM D792
Density	1.52 g/cc	0.0549 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.59 % @Time 173000 sec	0.59 % @Time 48.0 hour	ASTM D570
Melt Flow	4.0 g/10 min @Load 6.60 kg, Temperature 367 °C	4.0 g/10 min @Load 14.6 lb, Temperature 693 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	147 MPa	21300 psi	5 mm/min; ISO 527
	156 MPa	22600 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	147 MPa	21300 psi	5 mm/min; ISO 527
	156 MPa	22600 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527
	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.0 %	2.0 %	5 mm/min; ISO 527
	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	10.23 GPa	1484 ksi	5 mm/min; ASTM D638
	10.53 GPa	1527 ksi	1 mm/min; ISO 527
Flexural Yield Strength	200 MPa	29000 psi	2 mm/min; ISO 178
	206 MPa	29900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	8.96 GPa	1300 ksi	1.3 mm/min, 50 mm span; ASTM D790
	9.00 GPa	1310 ksi	2 mm/min; ISO 178

Mechanical Properties <small>Izod Impact, Notched</small>	Metric <small>0.890 J/cm</small>	English <small>1.19 ft-lb/in</small>	Comments <small>ASTM D256</small>
	3.20 J/cm @Thickness 3.20 mm	5.99 ft-lb/in @Thickness 0.126 in	ASTM D256
Izod Impact, Notched (ISO)	5.00 kJ/m <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Charpy Impact, Notched	2.40 J/cm <sup>2</sup>	11.4 ft-lb/in <sup>2</sup>	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	8.00 J @Temperature 23.0 °C	5.90 ft-lb @Temperature 73.4 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	16.0 µm/m-°C @Temperature 23.0 - 150 °C	8.89 µin/in-°F @Temperature 73.4 - 302 °F	ASTM E 831
CTE, linear, Transverse to Flow	53.0 µm/m-°C @Temperature 23.0 - 150 °C	29.4 µin/in-°F @Temperature 73.4 - 302 °F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	257 °C @Thickness 3.20 mm	495 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	254 °C @Thickness 3.20 mm	489 °F @Thickness 0.126 in	unannealed; ASTM D648
	255 °C @Thickness 6.40 mm	491 °F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	267 °C	513 °F	Rate B/50; ASTM D1525

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