

Asahi Kasei Xyron® X05516 Modified Polyphenylene Ether

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Ether, Molded

Material Notes:

Automotive Information provided by Asahi Kasei

Order this product through the following link:

http://www.lookpolymers.com/polymer_Asahi-Kasei-Xyron-X05516-Modified-Polyphenylene-Ether.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	23°C; ASTM D792
Moisture Absorption	0.0800 %	0.0800 %	23°C, 50% RH 24 hours; ASTM D570
Linear Mold Shrinkage	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	47.0 MPa	6820 psi	23°C, 50% RH; ASTM D638
Elongation at Break	80 %	80 %	23°C, 50% RH; ASTM D638
Flexural Strength	63.0 MPa	9140 psi	23°C, 50% RH; ASTM D790
Flexural Modulus	2.11 GPa	306 ksi	23°C, 50% RH; ASTM D790
Izod Impact, Notched	2.74 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	5.13 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	75.0 µm/m-°C @Temperature -30.0 - 60.0 °C	41.7 µin/in-°F @Temperature -22.0 - 140 °F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	115 °C	239 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	Equivalent
	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	Equivalent

Processing Properties	Metric	English	Comments
Processing Temperature	240 - 290 °C	464 - 554 °F	Resin Temperature

Mold Temperature Processing Properties	50.0 - 80.0 °C Metric	122 - 176 °F English	Comments
Drying Temperature	90.0 - 100 °C	194 - 212 °F	Pre-drying Temperature
Dry Time	2 - 4 hour	2 - 4 hour	

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