

Asahi Kasei Xyron® A0501 PPE/PA

Category : Polymer , Thermoplastic , Nylon , 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-A0501-PPEPA.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	23°C; ASTM D792
Moisture Absorption	0.400 %	0.400 %	23°C, 50% RH 24 hours; ASTM D570
Linear Mold Shrinkage	0.011 - 0.014 cm/cm	0.011 - 0.014 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	58.0 MPa	8410 psi	23°C, 50% RH; ASTM D638
Elongation at Break	55 %	55 %	23°C, 50% RH; ASTM D638
Flexural Strength	78.0 MPa	11300 psi	23°C, 50% RH; ASTM D790
Flexural Modulus	2.23 GPa	323 ksi	23°C, 50% RH; ASTM D790
Izod Impact, Notched	1.47 J/cm @Thickness 6.40 mm, Temperature 23.0 °C	2.75 ft-lb/in @Thickness 0.252 in, Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	100 µm/m-°C @Temperature -30.0 - 60.0 °C	55.6 µin/in-°F @Temperature -22.0 - 140 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	135 °C	275 °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	250 - 280 °C	482 - 536 °F	Resin Temperature

Mold Temperature Processing Properties	60.0 - 100 °C Metric	140 - 212 °F English	Comments
Drying Temperature	100 - 110 °C	212 - 230 °F	Pre-drying Temperature
Dry Time	3 - 4 hour	3 - 4 hour	

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