

Asahi Kasei Xyron® A1400 PPE/PA

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

Material Notes:

Oil Resistant Information provided by Asahi Kasei

Order this product through the following link:

http://www.lookpolymers.com/polymer_Asahi-Kasei-Xyron-A1400-PPEPA.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	23°C; ASTM D792
Moisture Absorption	0.900 %	0.900 %	23°C, 50% RH 24 hours; ASTM D570
Linear Mold Shrinkage	0.012 - 0.016 cm/cm	0.012 - 0.016 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	46.0 MPa	6670 psi	23°C, 50% RH; ASTM D638
Elongation at Break	140 %	140 %	23°C, 50% RH; ASTM D638
Flexural Strength	80.0 MPa	11600 psi	23°C, 50% RH; ASTM D790
Flexural Modulus	1.96 GPa	284 ksi	23°C, 50% RH; ASTM D790
Izod Impact, Notched	3.43 J/cm @Thickness 3.20 mm, Temperature 23.0 °C	6.43 ft-lb/in @Thickness 0.126 in, Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 µm/m-°C @Temperature -30.0 - 60.0 °C	44.4 µin/in-°F @Temperature -22.0 - 140 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	175 °C	347 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	130 °C	266 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Mold Temperature	60.0 - 90.0 °C	140 - 194 °F	
Drying Temperature	100 - 110 °C	212 - 230 °F	Pre-drying Temperature
Dry Time	3 - 4 hour	3 - 4 hour	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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