

Asahi Kasei Xyron® X5403 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-X5403-PPEPA.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 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	44.0 MPa	6380 psi	23°C, 50% RH; ASTM D638
Elongation at Break	40 %	40 %	23°C, 50% RH; ASTM D638
Flexural Strength	74.0 MPa	10700 psi	23°C, 50% RH; ASTM D790
Flexural Modulus	2.10 GPa	305 ksi	23°C, 50% RH; ASTM D790
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature 23.0 °C	@Thickness 0.126 in, Temperature 73.4 °F	
	0.690 J/cm	1.29 ft-lb/in	ASTM D256
	@Thickness 6.40 mm, Temperature 23.0 °C	@Thickness 0.252 in, Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 µm/m-°C	44.4 µin/in-°F	ASTM D696
	@Temperature -30.0 - 60.0 °C	@Temperature -22.0 - 140 °F	
Deflection Temperature at 0.46 MPa (66 psi)	190 °C	374 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	115 °C	239 °F	ASTM D648
Flammability, UL94	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-0	V-0	

Thermal Properties	Metric @ Thickness 3.20 mm	English @ Thickness 0.126 in	Comments
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Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	50% RH; ASTM D257
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	50% RH; ASTM D257
Dielectric Constant	3.1	3.1	50% RH; ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.5	3.5	50% RH; ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.0040	0.0040	50% RH; ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
	0.010	0.010	50% RH; ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Processing Properties	Metric	English	Comments
Processing Temperature	260 - 290 °C	500 - 554 °F	Resin Temperature
Mold Temperature	60.0 - 100 °C	140 - 212 °F	
Drying Temperature	90.0 - 100 °C	194 - 212 °F	Pre-drying Temperature
Dry Time	3 - 4 hour	3 - 4 hour	

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