

Asahi Kasei Xyron® X9102 Modified Polyphenylene Ether

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Ether, Heat Resistant

Material Notes:

High-Heat Resistant Information provided by Asahi Kasei

Order this product through the following link:

http://www.lookpolymers.com/polymer_Asahi-Kasei-Xyron-X9102-Modified-Polyphenylene-Ether.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	23°C; ASTM D792
Moisture Absorption	0.0600 %	0.0600 %	23°C, 50% RH 24 hours; ASTM D570
Linear Mold Shrinkage	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	64.0 MPa	9280 psi	23°C, 50% RH; ASTM D638
Elongation at Break	50 %	50 %	23°C, 50% RH; ASTM D638
Flexural Strength	83.0 MPa	12000 psi	23°C, 50% RH; ASTM D790
Flexural Modulus	2.16 GPa	313 ksi	23°C, 50% RH; ASTM D790
Izod Impact, Notched	0.780 J/cm	1.46 ft-lb/in	ASTM D256
	@Thickness 6.40 mm, Temperature 23.0 °C	@Thickness 0.252 in, Temperature 73.4 °F	
	0.980 J/cm	1.84 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature 23.0 °C	@Thickness 0.126 in, Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	65.0 µm/m-°C	36.1 µin/in-°F	ASTM D696
	@Temperature -30.0 - 60.0 °C	@Temperature -22.0 - 140 °F	
Deflection Temperature at 1.8 MPa (264 psi)	170 °C	338 °F	ASTM D648
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	50% RH; ASTM D257
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	50% RH; ASTM D257
Dielectric Constant	2.8	2.8	50% RH; ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	2.8	2.8	50% RH; ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	30.0 kV/mm	762 kV/in	Short time; ASTM D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Dissipation Factor	0.00050	0.00050	50% RH; ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
	0.00060	0.00060	50% RH; ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	80 sec	80 sec	Tungsten; ASTM D495

Processing Properties	Metric	English	Comments
Processing Temperature	290 - 320 °C	554 - 608 °F	Resin Temperature
Mold Temperature	80.0 - 120 °C	176 - 248 °F	
Drying Temperature	90.0 - 100 °C	194 - 212 °F	Pre-drying Temperature
Dry Time	2 - 4 hour	2 - 4 hour	

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