

Asahi Kasei Xyron® 400H Modified Polyphenylene Ether

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

Material Notes:

Heat Resistant Information provided by Asahi Kasei

Order this product through the following link:

http://www.lookpolymers.com/polymer_Asahi-Kasei-Xyron-400H-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	0.0600 %	0.0600 %	23°C, 50% RH 24 hours; ASTM D570
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	48.0 MPa	6960 psi	23°C, 50% RH; ASTM D638
Elongation at Break	45 %	45 %	23°C, 50% RH; ASTM D638
Flexural Strength	79.0 MPa	11500 psi	23°C, 50% RH; ASTM D790
Flexural Modulus	2.30 GPa	334 ksi	23°C, 50% RH; ASTM D790
Izod Impact, Notched	1.47 J/cm	2.75 ft-lb/in	ASTM D256
	@Thickness 6.35 mm, Temperature 23.0 °C	@Thickness 0.250 in, Temperature 73.4 °F	
	2.16 J/cm	4.05 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	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 1.8 MPa (264 psi)	110 °C	230 °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	29.0 kV/mm @Thickness 2.00 mm	737 kV/in @Thickness 0.0787 in	Short time; ASTM D149
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	70 sec	70 sec	Tungsten; ASTM D495

Processing Properties	Metric	English	Comments
Processing Temperature	230 - 290 °C	446 - 554 °F	Resin Temperature
Mold Temperature	60.0 - 90.0 °C	140 - 194 °F	
Drying Temperature	90.0 - 100 °C	194 - 212 °F	Pre-drying Temperature
Dry Time	2 - 4 hour	2 - 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