

XYRON™ X352V

Asahi Kasei Corporation - Polyphenylene Ether + PS

General Information

Product Description

 Modified PPE
 20% Filler reinforced Flame retardant V-1
 Appearance Good, Warpage Low

General

Material Status	<ul style="list-style-type: none"> Commercial: Active
Availability	<ul style="list-style-type: none"> Africa & Middle East Asia Pacific Europe North America
Filler / Reinforcement	<ul style="list-style-type: none"> Mineral, 20% Filler by Weight
Additive	<ul style="list-style-type: none"> Flame Retardant
Features	<ul style="list-style-type: none"> Flame Retardant Halogen Free Low Warpage Pleasing Surface Appearance
Processing Method	<ul style="list-style-type: none"> Injection Molding
Part Marking Code (ISO 11469)	<ul style="list-style-type: none"> >PPE+PS-MD20FR(40)<

 Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm ³	ISO 1183
Molding Shrinkage ² (0.0787 in)	0.30 to 0.40	%	Internal Method
Water Absorption (24 hr, 73°F)	0.060	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 73°F)	7690	psi	ISO 527
Tensile Strain (Break, 73°F)	8.0	%	ISO 527
Flexural Modulus (73°F)	725000	psi	ISO 178
Flexural Stress (73°F)	14800	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³ (73°F)	2.9	ft-lb/in ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	212	°F	ISO 75-2/A
CLTE - Flow (-22 to 149°F)	2.1E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (-22 to 149°F)	2.9E-5	in/in/°F	ISO 11359-2
Heat Deflection Temperature - (1.8MPa, Unannealed)	212	°F	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity (73°F)	1.0E+16	ohms·cm	IEC 60093
Dielectric Constant (5.20 GHz)	2.90		SPDR
Dielectric Constant			IEC 60250
100 Hz	3.20		
1 MHz	3.10		
Dissipation Factor (5.20 GHz)	4.0E-3		SPDR
Dissipation Factor			IEC 60250
100 Hz	3.0E-3		
1 MHz	5.0E-3		
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.03 in	V-2		
0.06 in	V-1		



0.12 in

5VB

Processing Information

Injection	Nominal Value	Unit
Drying Temperature - Hot Air Dryer	212 to 230	°F
Drying Time - Hot Air Dryer	3.0 to 4.0	hr
Processing (Melt) Temp	464 to 572	°F
Mold Temperature	122 to 176	°F

Notes

¹ Typical properties: these are not to be construed as specifications.

² 150x150x2 mm

³ 4 mm

