

XYRON™ X552H

Asahi Kasei Corporation - Polyphenylene Ether + PS

General Information
Product Description

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

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • Asia Pacific • North America
Filler / Reinforcement	• Mineral, 20% Filler by Weight
Features	• Low Warpage • Pleasing Surface Appearance
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >PPE+PS-MD20<

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Molding Shrinkage ² (0.0787 in)	0.36 to 0.47	%	Internal Method
Water Absorption (24 hr, 73°F)	0.060	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 73°F)	7980	psi	ISO 527
Tensile Strain (Break, 73°F)	6.0	%	ISO 527
Flexural Modulus (73°F)	769000	psi	ISO 178
Flexural Stress (73°F)	15800	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³ (73°F)	1.9	ft·lb/in ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	239	°F	ISO 75-2/A
CLTE - Flow (-22 to 149°F)	2.2E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (-22 to 149°F)	3.1E-5	in/in/°F	ISO 11359-2
Heat Deflection Temperature - (1.8MPa, Unannealed)	248	°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)	3.0E-3		SPDR
Dissipation Factor			IEC 60250
100 Hz	3.0E-3		
1 MHz	5.0E-3		
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94

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	482 to 572 °F
Mold Temperature	158 to 194 °F

Notes

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

² 150x150x2 mm

³ 4 mm

