

AsahiKASEI

XYRON™ 540V

Asahi Kasei Corporation - Polyphenylene Ether + PS

Sunday, February 5, 2017

General Information			
Product Description			
Modified PPE			
Unreinforced Flame retardant V-1			
General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • North America	
Additive	• Flame Retardant		
Features	• Flame Retardant		
Processing Method	• Injection Molding		
ASTM & ISO Properties ¹			
Physical	Nominal Value	Unit	Test Method
Density	1.08	g/cm³	ISO 1183
Molding Shrinkage ² (2.00 mm)	0.50 to 0.70	%	Internal Method
Water Absorption (23°C, 24 hr)	0.10	%	ISO 62
Outdoor Suitability (Black)	f2		UL 746C
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	60.0	MPa	ISO 527-2
Nominal Tensile Strain at Break (23°C)	13	%	ISO 527-2
Flexural Modulus (23°C)	2430	MPa	ISO 178
Flexural Stress (23°C)	98.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³ (23°C)	15	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed	120	°C	ASTM D648
1.8 MPa, Unannealed	114	°C	ISO 75-2/A
CLTE - Flow (-30 to 65°C)	7.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+16	ohms·cm	IEC 60093
Electric Strength ⁴ (2.00 mm)	29	kV/mm	IEC 60243-1
Dielectric Constant			IEC 60250
100 Hz	2.90		
1 MHz	2.90		
Dissipation Factor			IEC 60250
100 Hz	3.0E-3		
1 MHz	4.0E-3		
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.73 mm)	V-1		UL 94

Disclaimer:

- Data shown are typical values obtained by proper testing methods and should not be used for specification purpose. Please use these data for selecting the most appropriate grade suitable for specific usage. These data may be changed because of improvement in properties.
- Be sure to read the relevant SDS before handling and use, and always follow the Important Precautions.
- Do not use plastics in any of the following orally or medically-related applications.
- Orally-related application : any part, device or component which may come into direct oral contact or into direct contact with drinking foods or beverages. For drinking water application, please consult Asahi Kasei Chemicals Corporation.
- Medically-related applications : any part, or component which may be used intracorporeally or which may in dialysis or other processes come into direct or indirect contact with body tissue, body fluids, or transfusion fluids.

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Processing Information

Injection	Nominal Value	Unit
Drying Temperature	90 to 100	°C
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	240 to 300	°C
Mold Temperature	50 to 80	°C

Notes

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

² 150x150x2 mm

³ 4 mm

⁴ Short Time

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