

【Inquiries】

AsahiKASEI Engineering Plastics Information Comprehensive Site

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AsahiKASEI



XYRON™ VTD1V

Asahi Kasei Corporation - Polyphenylene Ether + PS

Wednesday, February 28, 2024

General Information

Product Description

Modified PPE
10% Filler reinforced
Acoustic Damping
Loss factor 6.3

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe • North America
Filler / Reinforcement	• Mineral, 10% Filler by Weight
Additive	• Flame Retardant
Features AKEP website	• Flame Retardant • Halogen Free • Impact Resistance, High • Noise Damping
Processing Method	• Injection Molding
Part Marking Code (ISO11469) (ISO 11469)	• >PPE+PS-TD10FR(40)<

Other Documentation

Literature	• Molding Conditions • SDS • Technical Handbook
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ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	ISO 1183
Molding Shrinkage ² (2.00 mm)	0.43 to 0.58	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	46.0	MPa	ISO 527
Nominal Tensile Strain at Break (23°C)	21	%	ISO 527
Flexural Modulus (23°C)	2600	MPa	ISO 178
Flexural Stress (23°C)	74.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³ (23°C)	20	kJ/m ²	ISO 179

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 applications: 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 Corporation.

- Medically-related applications: any part, device 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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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	98.0	°C	ISO 75-2/A
CLTE			
Flow : -30 to 65°C	6.2E-5	cm/cm/°C	ISO 11359-2
Transverse : -30 to 65°C	8.7E-5	cm/cm/°C	ISO 11375-2
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
Dielectric Constant (5.20 GHz)	2.70		SPDR
Dissipation Factor (5.20 GHz)	4.0E-3		SPDR

Processing Information

Injection	Nominal Value	Unit
Drying Temperature - Hot Air Dryer	100 to 110	°C
Drying Time - Hot Air Dryer	3.0 to 4.0	hr
Processing (Melt) Temp	250 to 290	°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

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