

XYRON™ W5002

Asahi Kasei Corporation - Polyphenylene Ether + PS

General Information

Product Description

Modified PPE
Unreinforced non-Flame retardant
Drinking water standard compliance: NSF, KTW-BWGL, ACS, WRAS

General

Features AKEP website	• Drinking Water Contact Acceptable		
Agency Ratings	• ACS • DVGW W270	• KTW • NSF STD-61	• WRAS
Processing Method	• Injection Molding		
Part Marking Code (ISO11469) (ISO 11469)	• >PPE+PS<		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.06	g/cm ³	ISO 1183
Molding Shrinkage ² (2.00 mm)	0.60 to 0.80	%	Internal Method
Water Absorption (24 hr, 23°C)	0.060	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	63.0	MPa	ISO 527
Nominal Tensile Strain at Break (23°C)	7.0	%	ISO 527
Flexural Modulus (23°C)	2600	MPa	ISO 178
Flexural Stress (23°C)	100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³ (23°C)	20	kJ/m ²	ISO 179



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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	114	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow : -30 to 65°C	7.0E-5	cm/cm/°C	
Transverse : -30 to 65°C	8.1E-5	cm/cm/°C	
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

Processing Information

Injection	Nominal Value	Unit
Drying Temperature - Hot Air Dryer	90 to 100	°C
Drying Time - Hot Air Dryer	2.0 to 4.0	hr
Processing (Melt) Temp	240 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

