

XYRON™ 641Z

Asahi Kasei Corporation - Polyphenylene Ether + PS

General Information

Product Description

Modified PPE
Unreinforced Flame retardant V-0
Heat resistance High

General

Additive	• Flame Retardant	
Features AKEP website	• Flame Retardant	• Halogen Free
Processing Method	• Injection Molding	
Part Marking Code (ISO11469) (ISO 11469)	• >PPE+PS-FR(40)<	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm ³	ISO 1183
Molding Shrinkage ² (2.00 mm)	0.50 to 0.70	%	Internal Method
Water Absorption (24 hr, 23°C)	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	74.0	MPa	ISO 527-2
Nominal Tensile Strain at Break (23°C)	9.0	%	ISO 527-2
Flexural Modulus (23°C)	2670	MPa	ISO 178
Flexural Stress (23°C)	113	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³ (23°C)	15	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed	130	°C	ASTM D648
1.8 MPa, Unannealed	127	°C	ISO 75-2/A
CLTE - Flow (-30 to 65°C)	7.0E-5	cm/cm/°C	ISO 11359-2



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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			UL 94
1.5 mm, ALL	V-0		
2.0 mm, BK	5VA		

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	280 to 300	°C
Mold Temperature	50 to 110	°C

Notes

- ¹ Typical properties: these are not to be construed as specifications.
- ² 150x150x2 mm
- ³ 4 mm
- ⁴ Short Time

