

XYRON™ AG512

Polyamide + PPE

Asahi Kasei Chemicals Corporation

Message:

Modified PPE
PA/PPE alloy
20% Filler reinforced Non-Flame retardant

General Information			
UL YellowCard	E82268-100455484		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm ³	ISO 1183
Molding Shrinkage ¹ (3.00 mm)	0.30 to 0.70	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	140	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	4.0	%	ISO 527-2
Flexural Modulus (23°C)	5600	MPa	ISO 178
Flexural Stress (23°C)	150	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ² (23°C)	12	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	180	°C	ISO 75-2/A
CLTE - Flow (-30 to 65°C)	4.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	7.1E+15	ohms·cm	IEC 60093
Electric Strength ³ (2.00 mm)	38	kV/mm	IEC 60243-1
Dielectric Constant			IEC 60250
100 Hz	3.50		
1 MHz	3.30		
Dissipation Factor			IEC 60250
100 Hz	8.0E-3		
1 MHz	0.012		
Injection	Nominal Value	Unit	
Drying Temperature	100 to 130	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	260 to 300	°C	
Mold Temperature	60.0 to 120	°C	
NOTE			

1.	120x80x3 mm
2.	4 mm
3.	Short Time

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