

XYRON™ DG141

Polyphenylene Sulfide + PPE
Asahi Kasei Chemicals Corporation

Message:

Modified PPE
PPS/PPE alloy
40% Filler reinforced Flame retardant V-0

General Information			
UL YellowCard	E82268-461564	E82268-499189	
Filler / Reinforcement	Filler,40% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.53	g/cm ³	ISO 1183
Molding Shrinkage ¹ (2.00 mm)	0.10 to 0.40	%	Internal Method
Outdoor Suitability (Black)	f1		UL 746C
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	89.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.0	%	ISO 527-2
Flexural Modulus (23°C)	11800	MPa	ISO 178
Flexural Stress (23°C)	147	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ² (23°C)	4.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	241	°C	ISO 75-2/A
CLTE - Flow (-30 to 65°C)	3.0E-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 ³ (2.00 mm)	27	kV/mm	IEC 60243-1
Dielectric Constant			IEC 60250
100 Hz	4.10		
1 MHz	4.10		
Dissipation Factor			IEC 60250
100 Hz	1.0E-3		
1 MHz	2.0E-3		
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94

0.750 mm	V-0	
2.00 mm	5VB	
Injection	Nominal Value	Unit
Drying Temperature	120	°C
Drying Time	3.0 to 4.0	hr
Processing (Melt) Temp	300 to 330	°C
Mold Temperature	90.0 to 130	°C
NOTE		
1.	150x150x2 mm	
2.	4 mm	
3.	Short Time	

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