

XYRON™ DG043

Polyphenylene Sulfide + PPE
Asahi Kasei Chemicals Corporation

Message:

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

General Information			
Filler / Reinforcement	Filler,40% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.52	g/cm ³	ISO 1183
Molding Shrinkage (2.00 mm)	0.15 to 0.30	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	79.0	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus	9770	MPa	ISO 178
Flexural Stress	132	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	185	°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	1.0E+16	ohms · cm	IEC 60093
Electric Strength (2.00 mm)	29	kV/mm	IEC 60243-1
Dielectric Constant			IEC 60250
100 Hz	4.00		
1 MHz	4.00		
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-1		

1.50 mm	V-0	
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

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

