

DURAFIDE® 1140A1

Polyphenylene Sulfide

Polyplastics Co., Ltd.

Message:

DURAFIDE® 1140A1 is a Polyphenylene Sulfide (PPS) product filled with 40% glass fiber. It is available in Asia Pacific, Europe, or North America. Typical application: Automotive.

Characteristics include:

Flame Rated

Good Toughness

General Information			
UL YellowCard	E109088-218832		
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	Ultra High Toughness		
UL File Number	E109088		
Forms	Pellets		
Part Marking Code (ISO 11469)	>PPS-GF40<		
Physical	Nominal Value	Unit	Test Method
Density	1.66	g/cm ³	ISO 1183
Water Absorption (23°C, 24 hr)	0.030	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	185	MPa	ISO 527-2
Tensile Strain (Break)	1.8	%	ISO 527-2
Flexural Modulus	13000	MPa	ISO 178
Flexural Stress	260	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	10	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	265	°C	ISO 75-2/A
CLTE			
Flow	1.0E-5	cm/cm/°C	
Transverse	4.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	IEC 60093
Electric Strength (3.00 mm)	15	kV/mm	IEC 60243-1
Dielectric Constant			IEC 60250
1 kHz	4.60		
1 MHz	4.60		
Dissipation Factor			IEC 60250
1 kHz	2.0E-3		
1 MHz	2.0E-3		

Arc Resistance	120	sec	
Comparative Tracking Index	150	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (310°C, 1000 sec ⁻¹)	380	Pa·s	ISO 11443
Additional Information	Nominal Value	Unit	Test Method
Color Number	HF2000/HD9050		

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