

DURAFIDE® 1140A1

Polyplastics - Polyphenylene Sulfide

General Information

Product Description

GF Reinforced

High Toughness

General

Filler / Reinforcement	• Glass Fiber, 40% Filler by Weight
Features	• High Toughness
UL File Number	• E109088
Forms	• Pellets
Part Marking Code (ISO 11469)	• >PPS-GF40<

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.66	g/cm ³	ISO 1183
Water Absorption (24 hr, 73°F, 0.0394 in)	0.030	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	26800	psi	ISO 527-2
Tensile Strain (Break)	1.8	%	ISO 527-2
Flexural Modulus	2.10E+6	psi	ISO 178
Flexural Stress	39900	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	4.8	ft·lb/in ²	ISO 179/1eA
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	105		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 264 psi, Unannealed	509	°F	ISO 75-2/A
CLTE - Flow	5.6E-6	in/in/°F	Internal Method
CLTE - Transverse	2.2E-5	in/in/°F	Internal Method
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Electric Strength (0.118 in)	380	V/mil	IEC 60243-1
Relative Permittivity			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	ASTM D495
Comparative Tracking Index	150	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94

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Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (590°F, 1000 sec ⁻¹)	380000	mPa·s	ISO 11443
Additional Information	Nominal Value	Unit	
Color Number	HF2000/HD9050		