

# DURAFIDE® 6165A4

## Polyplastics - Polyphenylene Sulfide

### General Information

#### Product Description

GF and Mineral Reinforced

Dimensionally Precise, Standard

#### General

Filler / Reinforcement	• Glass Fiber\Mineral, 65% Filler by Weight
Features	• Good Dimensional Stability
UL File Number	• E109088
Forms	• Pellets
Part Marking Code (ISO 11469)	• >PPS-(GF+MD)65<

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.98	g/cm <sup>3</sup>	ISO 1183
Water Absorption (24 hr, 73°F, 0.0394 in)	0.010	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	18900	psi	ISO 527-2
Tensile Strain (Break)	1.1	%	ISO 527-2
Flexural Modulus	2.87E+6	psi	ISO 178
Flexural Stress	29700	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	2.9	ft-lb/in <sup>2</sup>	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	518	°F	ISO 75-2/A
CLTE - Flow	5.6E-6	in/in/°F	Internal Method
CLTE - Transverse	1.7E-5	in/in/°F	Internal Method
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	8.0E+15	ohms-cm	IEC 60093
Electric Strength (0.118 in)	360	V/mil	IEC 60243-1
Relative Permittivity			IEC 60250
1 kHz	5.80		
1 MHz	5.80		
Dissipation Factor			IEC 60250
1 kHz	2.0E-3		
1 MHz	2.0E-3		
Arc Resistance	162	sec	ASTM D495
Comparative Tracking Index	200	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94

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<b>Fill Analysis</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Melt Viscosity (590°F, 1000 sec <sup>-1</sup> )	400000	mPa·s	ISO 11443
<b>Additional Information</b>	<b>Nominal Value</b>	<b>Unit</b>	
Color Number	HF2000/HD9050		