

# DURAFIDE® 3130A1

## Polyplastics - Polyphenylene Sulfide

### General Information

#### Product Description

Special

Low Wear

#### General

Filler / Reinforcement	• Mineral, 30% Filler by Weight
Features	• Wear Resistant
UL File Number	• E109088
Forms	• Pellets
Part Marking Code (ISO 11469)	• >PPS-MH30<

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

Physical	Nominal Value	Unit	Test Method
Density	1.64	g/cm <sup>3</sup>	ISO 1183
Water Absorption (24 hr, 73°F, 0.0394 in)	0.040	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	18100	psi	ISO 527-2
Tensile Strain (Break)	1.7	%	ISO 527-2
Flexural Modulus	1.67E+6	psi	ISO 178
Flexural Stress	33400	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	1.2	ft·lb/in <sup>2</sup>	ISO 179/1eA
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	100		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 264 psi, Unannealed	410	°F	ISO 75-2/A
CLTE - Flow	1.1E-5	in/in/°F	Internal Method
CLTE - Transverse	2.2E-5	in/in/°F	Internal Method
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	9.0E+15	ohms·cm	IEC 60093
Electric Strength (0.118 in)	230	V/mil	IEC 60243-1
Relative Permittivity			IEC 60250
1 kHz	7.60		
1 MHz	6.40		
Dissipation Factor			IEC 60250
1 kHz	0.020		
1 MHz	0.10		
Arc Resistance	116	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 <sup>-1</sup> )	180000	mPa·s	ISO 11443
Additional Information	Nominal Value	Unit	
Color Number	HF2000/HD9100		