DURAFIDE® 1130A1

Polyplastics - Polyphenylene Sulfide

General Information	
Product Description	
GF Reinforced	
High Toughness	
General	
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• High Toughness
UL File Number	• E109088
Forms	• Pellets
Part Marking Code (ISO 11469)	• >PPS-GF30<

Properties [1]			
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.57	g/cm³	ISO 1183
Water Absorption (24 hr, 73°F, 0.0394 in)	0.030	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress	24700	psi	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus	1.65E+6	psi	ISO 178
Flexural Stress	37700	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	4.8	ft·lb/in²	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			ISO 75-2/A
264 psi, Unannealed	500	°F	
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	3.0E+16	ohms·cm	IEC 60093
Electric Strength (0.118 in)	410	V/mil	IEC 60243-1
Relative Permittivity			IEC 60250
1 kHz	4.00		
1 MHz	4.00		
Dissipation Factor			IEC 60250
1 kHz	1.0E-3		
1 MHz	2.0E-3		
Arc Resistance	124	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)	350000	mPa·s	ISO 11443

Additional Information	Nominal Value	Unit
Color Number	HF2000/HD9050	