

DURAFIDE® 7140A4

Polyplastics - Polyphenylene Sulfide

General Information

Product Description

Special

Conductive, Low Wear

General

Filler / Reinforcement	• Carbon Fiber, 30% Filler by Weight
Additive	• PTFE Lubricant
Features	• Conductive • Lubricated • Wear Resistant
UL File Number	• E109088
Forms	• Pellets
Part Marking Code (ISO 11469)	• >PPS+PTFE-CF30<

Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.49	g/cm ³	ISO 1183
Water Absorption (24 hr, 73°F, 0.0394 in)	0.040	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	26100	psi	ISO 527-2
Tensile Strain (Break)	1.1	%	ISO 527-2
Flexural Modulus	3.31E+6	psi	ISO 178
Flexural Stress	39200	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	2.1	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	518	°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	8.0E+2	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (590°F, 1000 sec ⁻¹)	280000	mPa·s	ISO 11443
Additional Information	Nominal Value	Unit	
Color Number	HD9000		