

DURAFIDE® 6165A7S

Polyplastics - Polyphenylene Sulfide

General Information

Product Description

GF and Mineral Reinforced

Low Fuel Swelling Material

General

Filler / Reinforcement	• Glass Fiber\Mineral, 65% Filler by Weight
Features	• Fuel Resistant
Forms	• Pellets
Part Marking Code (ISO 11469)	• >PPS-(MD+GF)65<

Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.98	g/cm ³	ISO 1183
Water Absorption (24 hr, 73°F, 0.0394 in)	0.010	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	20300	psi	ISO 527-2
Tensile Strain (Break)	1.1	%	ISO 527-2
Flexural Modulus	2.58E+6	psi	ISO 178
Flexural Stress	31200	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	2.9	ft·lb/in ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 264 psi, Unannealed	518	°F	ISO 75-2/A
CLTE - Flow	1.1E-5	in/in/°F	Internal Method
CLTE - Transverse	1.7E-5	in/in/°F	Internal Method
Electrical	Nominal Value	Unit	Test Method
Relative Permittivity			IEC 60250
1 kHz	5.40		
1 MHz	5.40		
Dissipation Factor			IEC 60250
1 kHz	1.0E-3		
1 MHz	2.0E-3		
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (590°F, 1000 sec ⁻¹)	260000	mPa·s	ISO 11443
Additional Information	Nominal Value	Unit	
Color Number	HD9050		