DURAFIDE® 6150T73

Polyplastics - *Polyphenylene Sulfide*

General Information

Product Description			
Special			
High Impact, Low Gas			
General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber\Mineral, 50% Filler by Weight		
Features	• High Impact Resistance	• Low Emissivity	
UL File Number	• E109088		
Forms	• Pellets		
Part Marking Code (ISO 11469)	• >PPS-I-(GF+MD)50<		

Properties [1]

Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.71	g/cm³	ISO 1183
Water Absorption (24 hr, 73°F, 0.0394 in)	0.050	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress	21800	psi	ISO 527-2
Tensile Strain (Break)	1.8	%	ISO 527-2
Flexural Modulus	1.77E+6	psi	ISO 178
Flexural Stress	31900	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	5.0	ft·lb/in²	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	2.2E-5	in/in/°F	Internal Method
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	6.0E+15	ohms·cm	IEC 60093
Electric Strength (0.118 in)	430	V/mil	IEC 60243-1
Relative Permittivity			IEC 60250
1 kHz	4.50		
1 MHz	4.40		
Dissipation Factor			IEC 60250
1 kHz	2.0E-3		
1 MHz	6.0E-3		
Arc Resistance	130	sec	ASTM D495
Comparative Tracking Index	150	V	IEC 60112
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)	230000	mPa·s	ISO 11443
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Color Number	HD9050		