



SLS Glass Filled Duraform Material Properties

	Units	Test Method	GF DuraForm
Mechanical			
Tensile Strength	MPa	ASTM D638	38.1
Tensile Modulus	MPa	ASTM D638	5910
Tensile Elongation at Break	%	ASTM D638	2
Flexural Modulus	(MPa)	ASTM D790	3300
Stress at 5% Strain	(MPa)	ASTM D638	--
Stress at 10% Strain	(MPa)	ASTM D638	--
Impact Strength			
Notched Izod	(J/m)	ASTM D256	96
Unnotched Izod	(J/m)	ASTM D256	101
Initial Tear Resist. Die C at 73 ° F	(kN/m)	ASTM D1004	--
Abrasion Resist. Taber, CS-17 wheel, 1 kg load	mg/1000 cycles	ASTM D4060	--
Hardness	Shore A	ASTM D2240	--
Thermal			
Melting Point: T _m	(° C)	DSC	185
DTUL, 66 psi (.45 MPa)	(° C)	ASTM D648	175
DTUL, 264 psi (1.82 MPa)	(° C)	ASTM D648	110
Electrical			
Volume Resistivity 22 ° C, 50% RH, 500V	(Ohm X cm)	ASTM D257-93	2.0E x 10 ¹⁴
Surface Resistivity 22 ° C, 50% RH, 500V	(Ohm X cm)	ASTM D257-93	2.3E x 10 ¹⁴
Dielectric Constant		ASTM D150-95	3.7
Dielectric Strength 22 C, 50% RH, in air, 500V/sec	(v/mm)	ASTM D149-95a Method A	1.5E x 10 ⁴
Other			
Surface Finish (upper facing, no post)	(μ m)	--	6.2
Surface Finish (upper facing, with post)	(μ m)	--	1.0