Datenblatt

ABS

MECHANICAL PROPERTIES[1]	TEST METHOD	ENGLISH	METRIC
Tensile Strength (Type 1, 0.125”, 0.2”/min)	ASTM D638	5,200 psi	36 MPa
Tensile Modulus (Type 1, 0.125”, 0.2”/min)	ASTM D638	350,000 psi	2,400 MPa
Tensile Elongation (Type 1, 0.125”, 0.2”/min)	ASTM D638	3%	3%
Flexural Strength (Method 1, 0.05”/min)	ASTM D790	8,800 psi	61 MPa
Flexural Modulus (Method 1, 0.05”/min)	ASTM D790	350,000 psi	2,400 MPa
IZOD Impact, notched (Method A, 23°C)	ASTM D256	0.5 ft-lb/in	28 J/m
IZOD Impact, un-notched (Method A, 23°C)	ASTM D256	1.1 ft-lb/in	55 J/m

THERMAL PROPERTIES[2]	TEST METHOD	ENGLISH	METRIC
Heat Deflection (HDT) @ 66 psi, 0.125” unannealed	ASTM D648	204°F	96°C
Heat Deflection (HDT) @ 264 psi, 0.125” unannealed	ASTM D648	180°F	82°C
Vicat Softening Temperature (Rate B/50)	ASTM D1525	210°F	99°C
Glass Transition (Tg)	DSC (SSYS)	226°F	108°C
Coefficient of Thermal Expansion (flow)	ASTM E831	4.9[5] in/in/°F	8.82[5] mm/mm/°C
Coefficient of Thermal Expansion (xflow)	ASTM E831	4.7[5] in/in/°F	8.46[5] mm/mm/°C
Melting Point	- - - - - - - - -	Not Applicable[3]	Not Applicable[3]

ELECTRICAL PROPERTIES[4]	TEST METHOD	VALUE RANGE
Volume Resistivity	ASTM D257	3.0×10^{9} - 4.0×10^{10} ohm-cm
Surface Resistance	ASTM D257	10^{6} - 10^{9} ohms