



DIAMOND POLYMERS, INC.

# DIAMALLOY 1001 CF20

20% Carbon Fiber  
Filled ABS

PROPERTIES	ASTM METHOD	UNITS ENGLISH METRIC	
<b>PHYSICAL</b>			
Volume Resistivity	D-257	Ohm-cm	10 <sup>2</sup> -10 <sup>4</sup>
Specific Gravity	D-792		1.15
Mold Shrinkage	D-955	in/in cm/cm	0.0015 - 0.002 0.0015 - 0.002
Water Absorption	D-570	%	0.16
<b>IMPACT</b>			
Izod Impact, notched (0.125")	D-256	ft-lb/in J/m	1.2 64.1
Izod Impact, unnotched (0.125")	D-256	ft-lb/in J/m	5.0 267
<b>FLEXURAL</b>			
Flexural Modulus - 0.125 inch bar chs 0.05 in/min	D-790	psi / MPa	1,800,000 / 12,402
Flexural Strength	D-790	psi / MPa	23,000 / 158
<b>TENSILE</b>			
Tensile Yield Strength Type 1 bar, chs 2 in/min	D-638	psi MPa	15,700 108
Elongation @ Yield Type 1 bar, chs 2 in/min	D-638	%	1.5
<b>THERMAL</b>			
Heat Deflection Temperature 0.125" bar @ 1.8 Mpa	D-648	°F/°C	215 / 102

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