



DIAMOND POLYMERS, INC.

**Preliminary Technical
Data Sheet**

ABS 3003 MC

High Heat Plating Grade

PROPERTIES	ASTM METHOD	UNITS ENGLISH METRIC	
PHYSICAL			
Melt Flow Rate - Procedure A Condition (220°C/10 kg) Condition (230°C/3.8kg)	D-1238	g/10 min	1.2 4.2
Specific Gravity	D-792		1.055
Mold Shrinkage	D-955	in/in cm/cm	0.004-0.007 0.004-0.007
Rockwell Hardness	D-785	R-Scale	112
IMPACT			
Izod Impact, notched Test Method A (0.125" bar)	D-256	ft-lb/in J/m	5.3 283
FLEXURAL			
Flexural Modulus - Procedure B Test Method I (chs 0.05 in/min)	D-790	psi MPa	339,000 2335
TENSILE			
Tensile Yield Strength chs 2 in/min	D-638	psi MPa	6158 42.4
THERMAL			
Heat Deflection Temperature 0.125" bar @ 1.8 Mpa (264 psi) Unannealed/Conditioned 48 hours @ 23°C (73°F)	D-648	°F °C	183 84
0.250" bar @ 1.8 Mpa (264 psi) Unannealed/Conditioned 48 hours @ 23°C (73°F)		°F °C	196 91
VICAT SOFTENING POINT			
Vicat Softening Point (0.125", 1kg)	D-1525	°F °C	239 115

SDB/99-10

The information contained herein is provided for general reference purposes only. Diamond Polymers Inc. makes no guarantee or warranty and does not assume liability with respect to the accuracy or completeness of the information presented, or the product results in any specific instance and hereby expressly disclaims any implied warranties of suitability or fitness for a particular purpose or any other warranties or representations whatsoever expressed or implied. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of patent.