



DIAMOND POLYMERS, INC.

Extrusion Grade

**ABS 3500 EF**

Low Gel

PROPERTIES	ASTM METHOD	UNITS ENGLISH METRIC	
<b>PHYSICAL</b>			
Melt Flow Rate - Procedure A 200°C/5.0 kg 230°C/3.8 kg	D-1238	g/10 min	0.5 1.8
Specific Gravity	D-792		1.05
Mold Shrinkage	D-955	in/in cm/cm	-- --
Gloss @ 60°	D-523	%	95
<b>IMPACT</b>			
Izod Impact, notched 0.125", 23° C (73° F)	D-256	ft-lb/in J/m	2.4 128.2
<b>FLEXURAL</b>			
Flexural Modulus, tangent, 0.125" bar, chs 0.05 in/min	D-790	psi (MPa)	377,000 (2,598)
Flexural Strength @ yield 0.125" bar, chs 0.05 in/min	D-790	psi (MPa)	11,134 (77)
<b>TENSILE</b>			
Tensile Yield Strength, Type I bar, chs 2 in/min	D-638	psi (MPa)	7,340 (50)
Elongation @ yield / break Type I bar, chs 2 in/min	D-638	%	2.4 / 45
<b>THERMAL</b>			
Heat Deflection Temperature 0.125" bar @ 1.8 Mpa (264 psi) Unannealed/Conditioned 48 hours @ 23° C (73° F)	D-648	°F / °C	185 / 85
0.250" bar @ 1.8 Mpa (264 psi) Unannealed/Conditioned 48 hours @ 23° C (73° F)	D-648	°F / °C	201 / 94
Vicat Softening Point, 0.125", 1Kg	D-1525	°F / °C	234 / 112

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