

# INEOS Absolac<sup>®</sup> XT04PM

Categories: Polymer; Thermoplastic; ABS Polymer; Acrylonitrile Butadiene Styrene (ABS), Molded  
 Material Notes: Absolac XT04(PM) is high heat grade suitable for injection molding applications. high heat grade, good impact strength. Applications: automotive parts, lamp housing, automotive interior parts, microwave oven housings.  
 Information provided by Styrolution.

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ISO 294-4
Melt Flow	5.0 g/10 min @Load 10.0 kg, Temperature 220 °C	5.0 g/10 min @Load 22.0 lb, Temperature 428 °F	Volumetric; cm <sup>3</sup> /10 min; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ISO 2039-2
Tensile Strength, Yield	55.0 MPa	7980 psi	ISO 527
Tensile Modulus	2.80 GPa	406 ksi	ISO 527
Flexural Strength	90.0 MPa	13100 psi	ISO 178
Flexural Modulus	2.80 GPa	406 ksi	ISO 178

Izod Impact, Notched (ISO)	18.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	8.57 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	0.25 inch bar, 0.01 notch radius; ISO 180/A
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Thermal Properties	Metric	English	Comments
CTE, linear	70.0 - 100 µm/m-°C	38.9 - 55.6 µin/in-°F	ISO 11359
Deflection Temperature at 1.8 MPa (264 psi)	103 °C	217 °F	annealed 4 hours at 80°C; ISO 75
Vicat Softening Point	110 °C @Load 5.10 kg	230 °F @Load 11.2 lb	B/2 120C/H; ASTM D 1525

Optical Properties	Metric	English	Comments
Gloss	98 %	98 %	at 60°, specular; ASTM D523