

INEOS Absolac® 200EP

Categories: Polymer; Thermoplastic; ABS Polymer; Acrylonitrile Butadiene Styrene (ABS), Plating Grade
 Material Notes: Absolac® 200EP is an electroplating grade. electroplating grade, Applications: Metallized Automotive parts, Camera parts, Sanitary fittings, Fishing reels, Fan Caps, Umbrella handles
 Information provided by Styrolution.

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ISO 294-4
Melt Flow	20 g/10 min @Load 10.0 kg, Temperature 220 °C	20 g/10 min @Load 22.0 lb, Temperature 428 °F	Volumetric; cm ³ /10 min; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	102	102	ISO 2039-2
Ball Indentation Hardness	74.0 MPa	10700 psi	ISO 2039-1
Tensile Strength, Yield	63.0 MPa	9140 psi	ISO 527
Tensile Modulus	2.60 GPa	377 ksi	ISO 527
Flexural Strength	63.0 MPa	9140 psi	ISO 178
Flexural Modulus	2.10 GPa	305 ksi	ISO 178
Izod Impact, Notched (ISO)	>= 28.0 kJ/m ² @Temperature 23.0 °C	>= 13.3 ft-lb/in ² @Temperature 73.4 °F	0.25 inch bar, 0.01 notch radius; ISO 180/A

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 0.46 MPa (66 psi)	95.0 °C	203 °F	annealed 4 hours at 80°C; ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	93.0 °C	199 °F	annealed 4 hours at 80°C; ISO 75
Vicat Softening Point	95.0 °C @Load 5.10 kg	203 °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