

INEOS Absolac[®] 320

Categories: Polymer; Thermoplastic; ABS Polymer; Acrylonitrile Butadiene Styrene (ABS), Molded
 Material Notes: Absolac[®] 320 is an easy-flow, standard impact, refrigerant injection molding grade suitable for appliances sector.
 Good chemical resistance, Refrigeration grade, Good flow, Balance mechanical properties. Applications: Refrigerator parts, End cap,
 Washing machine parts, Water Purifiers
 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	16 g/10 min @Load 10.0 kg, Temperature 220 °C	16 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	110	110	ISO 2039-2
Tensile Strength, Yield	52.0 MPa	7540 psi	ISO 527
Tensile Modulus	2.60 GPa	377 ksi	ISO 527
Flexural Strength	75.0 MPa	10900 psi	ISO 178
Flexural Modulus	2.70 GPa	392 ksi	ISO 178
Izod Impact, Notched (ISO)	20.0 kJ/m ² @Temperature 23.0 °C	9.52 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 1.8 MPa (264 psi)	93.0 °C	199 °F	annealed 4 hours at 80°C; ISO 75
Vicat Softening Point	98.0 °C @Load 5.10 kg	208 °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