

Styron CALIBREâ„¢ MEGARAD 2081-22 Polycarbonate Resin

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Overview: CALIBREâ„¢ 2081-22 polycarbonate resin is a high-flow resin designed for injection molded medical parts. It is stabilized to reduce color shift associated with exposure to high energy radiation (gamma or electron-beam). It is available in light purple transparent color designation FC030006. Main Characteristics: Stabilized for high-energy radiation Transparent Contains mold release Tested under ISO 10993 Medical applications Information provided by Styron

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styron-CALIBRE-MEGARAD-2081-22-Polycarbonate-Resin.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	22 g/10 min @Load 1.20 kg, Temperature 300 Â°C	22 g/10 min @Load 2.65 lb, Temperature 572 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	46.9 MPa	6800 psi	50 mm/min; ASTM D638
Tensile Strength, Yield	64.1 MPa	9300 psi	50 mm/min; ASTM D638
Elongation at Break	180 %	180 %	50 mm/min; ASTM D638
Izod Impact, Notched	7.50 J/cm @Temperature 23.0 Â°C	14.1 ft-lb/in @Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	123 Â°C	253 Â°F	Unannealed; ASTM D648

Optical Properties	Metric	English	Comments
Transmission, Visible	78 %	78 %	ASTM D1003

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