



CALIBRE™ MEGARAD™ 2081-22

Trinseo - Polycarbonate Resin

Tuesday, November 5, 2019

General Information

Product Description

CALIBRE MEGARAD 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 and USP

Applications:

- Medical applications

General

Material Status	• Commercial: Active
Availability	• North America
Additive	• Mold Release
Uses	• Electrical/Electronic Applications • Medical/Healthcare Applications
Agency Ratings	• ISO 10993 ¹
Appearance	• Clear/Transparent
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ²

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.20		ASTM D792
Melt Mass-Flow Rate (300°C/1.2 kg)	22	g/10 min	ASTM D1238
Molding Shrinkage - Flow	5.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ³ (Yield)	9300	psi	ASTM D638
Tensile Strength ³ (Break)	6800	psi	ASTM D638
Tensile Elongation ³ (Break)	180	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	14	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 264 psi, Unannealed	253	°F	ASTM D648
Optical	Nominal Value	Unit	Test Method
Transmittance	85.0	%	ASTM D1003

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Notes

¹ Biocompatibility testing following ISO Guidelines 10993 has been completed on select classic resins in this series. Please consult Styron for details. ISO guidelines include a sensitization test.

² Typical properties: these are not to be construed as specifications.

³ 2.0 in/min