

ColorRx® PEEK-3000RX

Polyetheretherketone
LTL Color Compounders, Inc.

Message:
A biocompatible, Polyetheretherketone with excellent chemical resistance and radiation resistance for healthcare applications ii . Approved for <24 hours tissue or body fluid contact.

General Information			
Features	Biocompatible		
	Good Chemical Resistance		
	Radiation (Gamma) Resistant		
Uses	Medical/Healthcare Applications		
Agency Ratings	ISO 10993		
	USP Class VI		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (400°C/2.16 kg)	36	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.4 to 1.6	%	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	102		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	99.3	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	5.2	%	
Break	10 to 20	%	
Flexural Modulus	3790	MPa	ASTM D790
Flexural Strength	152	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	51	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	160	°C	ASTM D648

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