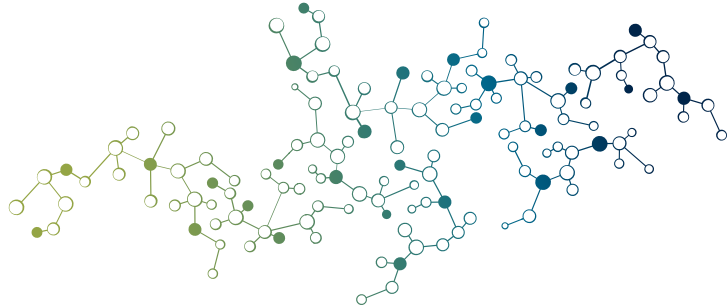




ColorRx® PEEK-3000RX

PRODUCT DESCRIPTION PEEK-3000RX is a high flow injection molding grade of polyetheretherketone (PEEK) with excellent chemical resistance and radiation resistance. It is suitable for healthcare applications.

MATERIAL STATUS Commercial: Active

AVAILABILITY Africa & Middle East, Asia Pacific, Europe, Latin America, North America

FEATURES Autoclave Sterilizable, Biocompatible, E-beam Sterilizable, Ethylene Oxide Sterilizable, Excellent Colorability, Heat Sterilizable, Radiation Sterilizable, Steam Sterilizable

USES Aerospace Applications, Connectors, Engineering Parts, Industrial Parts, Medical/Healthcare Applications, Metal Replacement, Surgical Instruments

FORMS Pellets

PROCESSING METHOD Injection Molding

PHYSICAL	NOMINAL VALUE	UNIT	TEST METHOD
Density / Specific Gravity	1.30		ASTM D792
Melt Mass-Flow Rate (MFR) (400°C/2.16 kg)	36	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	0.014 to 0.016	in/in	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
MECHANICAL	NOMINAL VALUE	UNIT	TEST METHOD
Tensile Strength ² (Yield)	14400	psi	ASTM D638
Tensile Elongation ²			ASTM D638
Yield	5.2	%	
Break	10 to 20	%	
Flexural Modulus ²	550000	psi	ASTM D790
Flexural Strength ²	22000	psi	ASTM D790
IMPACT	NOMINAL VALUE	UNIT	TEST METHOD
Notched Izod Impact (73°F)	0.95	ft·lb/in	ASTM D256
HARDNESS	NOMINAL VALUE	UNIT	TEST METHOD
Rockwell Hardness (R-Scale)	102		ASTM D785
THERMAL	NOMINAL VALUE	UNIT	TEST METHOD
Deflection Temperature Under Load (264 psi, Annealed)	320	°F	ASTM D648

NOTES

¹ Typical properties: these are not to be construed as specifications.

² 2.0 in/min