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Product Data Sheet

Product PEEK-3000RX

ColorRx®

Biocompatible Polyetheretherketone (PEEK) with excellent chemical resistance and radiation resistance for healthcare applications. Approved for <24 hours tissue or body fluid contact.

PHYSICAL	Test Method	Typical Values, Units	7/5/2012
Specific Gravity	ASTM D792	1.30 g/cm ³	
Melt Flow Rate 400 C / 2.16 kg	ASTM D1238	36 g/10 min	
Mold Shrinkage Linear Flow (0.125)	ASTM D955	.014 - .016 in/in	
Water Absorption @ 24 hrs	ASTM D570	0.10 %	
IMPACT	Test Method	Typical Values, Units	
Izod Impact Strength Notched (73 F) (-22 F)	ASTM D256	.95 ft-lb/in ft-lb/in	
MECHANICAL	Test Method	Typical Values, Units	
Tensile Strength @ Yield**	ASTM D638	14400 psi	
Tensile Strength @ Break**		psi	
Elongation @ Yield*	ASTM D638	5.2 %	
Elongation @ Break*	ASTM D638	10 - 20 %	
Flexural Strength***	ASTM D790	22000 psi	
Flexural Modulus***	ASTM D790	550,000 psi	
HARDNESS	Test Method	Typical Values, Units	
Hardness R Scale	ASTM D785	102	
THERMAL	Test Method	Typical Values, Units	
DTUL @ 264 psi Annealed	ASTM D648	320 °F	
IGNITION CHARACTERISTICS	Test Method	Typical Values, Units	
UL File Number			
Flame Rating - UL			

* % elongation values are calculated from the elongation of the entire bar at 2.0 in/min

** Tensile strength values are calculated at 2.0 in/min

*** Flexural data is calculated at 2.0 in/min

The values shown are typical values that have been obtained using test bars molded from laboratory samples and are not intended for specification purposes. These values are for natural colors only. Addition of pigments may alter some values. Inasmuch as LTL Color Compounders has no control over the use to which others may put the material, it does not guarantee that the same results as those described herein will be obtained. Each user of the material should make his own test to determine the material's suitability for his own particular use. Statements concerning possible or suggested uses of the materials described herein are not to be construed as constituting a license under any LTL Color Compounders patent covering such use or as recommendations for use of such materials in the infringement of any patent. These are developmental products with estimated physical property profiles. Actual values will need to be determined upon production of material.

