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Product Data Sheet

Product PS-1400RX

ColorRx®

Biocompatible, high flow crystal Polystyrene for healthcare applications.

PHYSICAL	Test Method	Typical Values, Units	4/16/2014
Specific Gravity	ASTM D792	1.04 g/cm 3	
Melt Flow Rate 230 C / 3.8 kg	ASTM D1238	14 g/10 min	
Mold Shrinkage	ASTM D955	0.004 - 0.007 in/in	
Linear Flow (0.125)			
Water Absorption @ 24 hrs		%	

IMPACT	Test Method	Typical Values, Units
Izod Impact Strength		ft-lb/in
Notched (73 F)		ft-lb/in
(-22 F)		

MECHANICAL	Test Method	Typical Values, Units
Tensile Strength @ Yield**	ASTM D638	6300 psi
Tensile Strength @ Break**		psi
Elongation @ Yield*		%
Elongation @ Break*		%
Flexural Strength***	ASTM D638	12100 psi
Flexural Modulus***	ASTM D790	450,000 psi

HARDNESS	Test Method	Typical Values, Units
Hardness		

THERMAL	Test Method	Typical Values, Units
DTUL @ 264 psi	ASTM D648	195 °F
Annealed		

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.