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Product Data Sheet

Product HIPS-1500RX

ColorRx®

High flow injection molding grade of High Impact Polystyrene suitable for medical applications requiring biocompatibility.

PHYSICAL	Test Method	Typical Values, Units	7/16/2009
Specific Gravity	ASTM D7992	1.04 g/cm ³	
Melt Flow Rate 230 C / 2.16 kg	ASTM D1238	14.5 g/10 min	
Mold Shrinkage Linear Flow (0.125)	ASTM D955	.004 - .007 in/in	
Water Absorption @ 24 hrs		%	
IMPACT	Test Method	Typical Values, Units	
Izod Impact Strength Notched (73 F) (-22 F)	ASTM D256	3 ft-lb/in ft-lb/in	
MECHANICAL	Test Method	Typical Values, Units	
Tensile Strength @ Yield**	ASTM D638	3100 psi	
Tensile Strength @ Break**		psi	
Elongation @ Yield*		%	
Elongation @ Break*	ASTM D638	35 %	
Flexural Strength***		psi	
Flexural Modulus***	ASTM D790	305,000 psi	
HARDNESS	Test Method	Typical Values, Units	
Hardness			
THERMAL	Test Method	Typical Values, Units	
DTUL @ 264 psi Annealed, .250"	ASTM D648	174 °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.

