

ColorRx® HIPS-0600RX

Americhem - High Impact Polystyrene

General Information

Product Description

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

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Biocompatible	• Ethylene Oxide Sterilizable	• Excellent Colorability
Uses	• Closures • Engineering Parts	• Medical/Healthcare Applications • Surgical Instruments	
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.04		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	4.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	4100	psi	ASTM D638
Tensile Elongation (Break)	58	%	ASTM D638
Flexural Modulus	290000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.9	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed, 0.250 in)	177	°F	ASTM D648

Notes

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

