

ColorRx® PE2-0400RX

Americhem - High Density Polyethylene

General Information

Product Description

PE2-0400RX is an injection molding grade of bimodal HDPE (high density polyethylene) with good impact strength and excellent Environmental Stress Cracking Resistance. It is suitable for healthcare applications and sterilizable by EtO, steam, and gamma radiation up to 35kGv.

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.956		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	0.010 to 0.020	in/in	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	3150	psi	ASTM D638
Tensile Elongation ² (Yield)	10	%	ASTM D638
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	61		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	149	°F	ASTM D648

Notes

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

² 2.0 in/min

