

ColorRx® PCT-400URX

Americhem - Polycarbonate + PBT

General Information
Product Description

PCT-400URX is an unreinforced injection molding grade of PC+PBT alloy, impact modified, UV-stabilized, and chemical resistance. It is suitable for healthcare applications.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• UV Stabilizer		
Features	• Biocompatible • E-beam Sterilizable • Ethylene Oxide Sterilizable	• Excellent Colorability • Radiation Sterilizable • Steam Sterilizable	• UV Stabilized
Uses	• Closures • Engineering Parts • Housings	• Industrial Parts • Medical/Healthcare Applications • Outdoor Applications	• Surgical Instruments
Agency Ratings	• ISO 10993-5		
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.24		ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/3.8 kg)	40	g/10 min	ASTM D1238
Molding Shrinkage - Flow	7.0E-3 to 0.016	in/in	ASTM D955
Water Absorption (24 hr)	0.080	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	6500	psi	ASTM D638
Tensile Strength (Break)	5000	psi	ASTM D638
Tensile Elongation (Yield)	4.0	%	ASTM D638
Tensile Elongation ² (Break)	70	%	ASTM D638
Flexural Modulus ²	252000	psi	ASTM D790
Flexural Strength ²	9000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	16	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	192	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	230	°F
Drying Time	4.0	hr
Drying Time, Maximum	6.0	hr
Suggested Shot Size	50 to 80	%
Rear Temperature	475 to 510	°F
Middle Temperature	480 to 520	°F
Front Temperature	490 to 525	°F
Nozzle Temperature	490 to 520	°F
Processing (Melt) Temp	500 to 530	°F
Mold Temperature	150 to 200	°F



Back Pressure	43.0 to 100 psi
Screw Speed	50 to 80 rpm
Vent Depth	5.0E-4 to 8.0E-4 in

Notes

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

² 2.0 in/min

