

ColorRx® PP2-3500RX
Americhem - Polypropylene Random Copolymer
General Information
Product Description

PP2-3500RX is a high flow injection molding grade of polypropylene (PP) random copolymer with high clarity. It is suitable for healthcare applications and sterilizable by EtO and steam at 121°C.

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Features	• Autoclave Sterilizable • Biocompatible • Ethylene Oxide Sterilizable • Excellent Colorability • Steam Sterilizable
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	0.902		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	35	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	3830	psi	ASTM D638
Tensile Elongation ² (Yield)	11	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.2	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	94		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	183	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	360 to 420	°F
Middle Temperature	370 to 425	°F
Front Temperature	380 to 430	°F
Nozzle Temperature	400 to 450	°F
Processing (Melt) Temp	400 to 450	°F
Mold Temperature	60 to 125	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

Notes

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

² 2.0 in/min

