

ColorRx® ABS-0600RX

Americhem - Acrylonitrile Butadiene Styrene

General Information

Product Description

ABS-0600RX is an injection molding grade of high gloss ABS (acrylonitrile butadiene styrene) with high dimensional stability. It is suitable for healthcare applications and sterilizable by Gamma and EtO.

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.05		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	5.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	5.0E-3 to 8.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	6350	psi	ASTM D638
Tensile Elongation ² (Break)	23	%	ASTM D638
Flexural Modulus ²	335000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	6.0	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed, 0.500 in)	175	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180 to 200	°F
Drying Time	2.0 to 4.0	hr
Drying Time, Maximum	8.0	hr
Suggested Shot Size	30 to 60	%
Rear Temperature	370 to 410	°F
Middle Temperature	400 to 440	°F
Front Temperature	420 to 460	°F
Nozzle Temperature	425 to 480	°F
Processing (Melt) Temp	425 to 480	°F
Mold Temperature	120 to 160	°F
Back Pressure	50.0 to 100	psi
Screw Speed	30 to 60	rpm
Vent Depth	1.5E-3 to 2.0E-3	in

Notes

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

² 2.0 in/min

