

ColorRx® ABS-0720GFRX

Americhem - Acrylonitrile Butadiene Styrene

General Information

Product Description

ABS-0720GFRX is a 20% glass fiber reinforced injection molding grade of ABS (acrylonitrile butadiene styrene) with good mechanical and strength properties. It is suitable for healthcare applications.

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Additive	• Flame Retardant
Features	• Biocompatible • Filled • High Strength • E-beam Sterilizable • Flame Retardant • Radiation Sterilizable • Ethylene Oxide Sterilizable • Good Dimensional Stability • Excellent Colorability • High Stiffness
Uses	• Medical/Healthcare Applications • Surgical Instruments
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.16		ASTM D792
Molding Shrinkage - Flow (0.125 in)	1.0E-3 to 4.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	10000	psi	ASTM D638
Flexural Modulus ²	560000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.5	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed, 0.250 in)	215	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180 to 200	°F
Drying Time	2.0 to 4.0	hr
Rear Temperature	370 to 410	°F
Middle Temperature	400 to 460	°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

Notes

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

² 2.0 in/min

