

ColorRx® ABS-0710GFRX*Americhem - Acrylonitrile Butadiene Styrene***General Information****Product Description**

ABS-0710GFRX is a 10% 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 • Asia Pacific	• Europe • Latin America	• North America
Additive	• Flame Retardant		
Features	• Biocompatible • E-beam Sterilizable • Ethylene Oxide Sterilizable	• Excellent Colorability • Flame Retardant • High Stiffness	• High Strength • 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	1.12		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)	9350	psi	ASTM D638
Flexural Modulus ²	544000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.8	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed, 0.250 in)	205	°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

