

ColorRx® TABS-1000RX

Americhem - Acrylonitrile Butadiene Styrene

General Information

Product Description

TABS-1000RX is a high flow injection molding grade of transparent ABS (acrylonitrile butadiene styrene) with high impact strength, stiffness, and good processability. It is suitable for healthcare applications.

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Features	• Good Processability • High Flow • High Stiffness • High Clarity • High Impact Resistance
Uses	• Medical/Healthcare Applications
Agency Ratings	• ISO 10993
Appearance	• Clear/Transparent
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.08		ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	22	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	4.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	7390	psi	ASTM D638
Tensile Elongation ² (Break)	30	%	ASTM D638
Flexural Modulus ²	341000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	2.0	ft-lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	112		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	181	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.13 in)	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176 to 194	°F
Drying Time	2.0 to 4.0	hr
Drying Time, Maximum	12	hr
Suggested Shot Size	30 to 60	%
Rear Temperature	350 to 400	°F
Middle Temperature	370 to 410	°F
Front Temperature	390 to 430	°F
Nozzle Temperature	390 to 440	°F
Processing (Melt) Temp	390 to 440	°F
Mold Temperature	100 to 140	°F
Back Pressure	4000 to 8000	psi
Screw Speed	30 to 60	rpm

