

ColorRx® ACR-1300MIRXG

Acrylic
LTL Color Compounders, Inc.

Message:
A biocompatible, high flow, medium impact acrylic resin for healthcare applications, stabilized to provide improved color after gamma sterilization.

General Information			
Features	Biocompatible		
	High Flow		
	Medium Impact Resistance		
	Radiation Sterilizable		
Uses	Medical/Healthcare Applications		
Agency Ratings	ISO 10993		
	USP Class VI		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	13	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage - Flow	0.30 to 0.60	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.30	%	ASTM D570, ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2410	MPa	ASTM D638, ISO 527-2
Tensile Strength			
Ultimate	46.2	MPa	ASTM D638
--	46.2	MPa	ISO 527-2
Tensile Elongation (Break)	33	%	ASTM D638, ISO 527-2
Flexural Modulus	2410	MPa	ASTM D790, ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	3.0	kJ/m ²	ISO 179/2C
Charpy Unnotched Impact Strength	34	kJ/m ²	ISO 179/2U
Notched Izod Impact			
23°C, 3.18 mm	32	J/m	ASTM D256
23°C ¹	3.1	kJ/m ²	ISO 180/1A

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	81.1	°C	ASTM D648, ISO 75-2/A
Vicat Softening Temperature	82.8	°C	ISO 306/B50, ASTM D1525 ²

Optical	Nominal Value	Unit	Test Method
Transmittance (3180 µm)	92.0	%	ASTM D1003

Haze (3180 μm)	1.5	%	ASTM D1003
NOTE			
1.	0.125 in		
2.	Rate A (50°C/h), Loading 2 (50 N)		

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