ColorRx® ACR-1300MIRXG

PMMA — Americhem Engineered Compounds

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	**13**	g/10min	ASTM D 1238
Temperature	**230**	°C	-
Load	**3.8**	kg	-
Mold Shrinkage, MD	**0.0045**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Charpy impact strength, +23°C	**34**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**3**	kJ/m²	ISO 179/1eA
ASTM Data			
Tensile Modulus	**2413**	MPa	ASTM D 638
Tensile Strength	**46.2**	MPa	ASTM D 638
Elongation at Break	**33**	%	ASTM D 638
Flexural Modulus	**2413**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**32**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**83**	°C	ISO 75-1/-2
Vicat softening temperature, B	**85**	°C	ISO 306
ASTM Data			
DTUL @ 264 psi	**81.1**[ann.]	°C	ASTM D 648
Vicat Temperature	**82.8**	°C	ASTM D 1525

ann.: annealed

Optical properties	Value	Unit	Test Standard
ASTM Data			
Haze	**1.5**	%	ASTM D 1003
Light Transmittance	**92**	%	ASTM D 1003

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	**0.3**	%	ASTM D 570
Density	**1170**	kg/m³	ASTM D 792

Characteristics

Special Characteristics

High impact or impact modified, Transparent, Sterilizable, Gamma irradiation sterilization

Chemical Resistance

Radiation Resistance

Certifications

Medical Grade, Biocompatibility ISO 10993, US Pharmacopeia Class VI Approved

Applications

Medical

Regional Availability

North America