OPTIX® ACRYLIC POLYMERS

OPTIX CA-927 GHF CLEAR

OPTIX CA-927 GHF is a high melt flow version of OPTIX CA-927 G. The higher melt flow is especially suitable for molding large parts or parts with many hard-to-fill details. It is suitable for gamma-ray or ethylene oxide sterilization for medical applications and food contact uses.

CODE COMPLIANCES

OPTIX CA-927 GHF complies with FDA regulation 21 CFR 177.1010 (acrylic and modified acrylic plastics, semi-rigid and rigid) for food contact uses. OPTIX CA-927 GHF also complies with USP Class VI biocompatibility specification for use in medical applications.

APPLICATIONS

Products in contact with food, optical lenses and other parts for medical devices

TYPICAL PROPERTIES*

Property	Test Method	Units	Values
OPTICAL			
Luminous Transmittance	ASTM D1003	%	91.0
Haze	ASTM D1003	%	< 3.0
Refractive Index	ASTM D542	-	1.49
RHEOLOGICAL			
Melt Flow Rate (230°C/3.8kg)	ASTM D1238	g/10 min	12
MECHANICAL			
Tensile Strength	ASTM D638	psi (MPa)	7,300 (50)
Tensile Elongation	ASTM D638	%	5.0
Tensile Modulus of Elasticity	ASTM D638	psi (MPa)	280,000 (1,900)
Flexural Strength	ASTM D790	psi (MPa)	11,000 (76)
Flexural Modulus	ASTM D790	psi (MPa)	290,000 (2,000)
Impact Strength – Notched Izod (1/4")	ASTM D256	ft·lbf/in. (J/m)	0.9 (48)
Impact Strength – Falling Dart (GB, 1/8")	ASTM D5420	in.·lbf (J)	30 (3.4)
Rockwell Hardness (M Scale)	ASTM D785	-	53
THERMAL			
Vicat Softening Temperature (50N, 50°C/hr)	ASTM D1525	°F (°C)	178 (81)
Heat Deflection Temperature Under Load (264 psi)	ASTM D648	°F (°C)	154 (68)
Coefficient of Linear Thermal Expansion	ASTM D696	cm/(cm·°C)	10×10^{-5}
Mold Shrinkage	ASTM D955	%	0.2 – 0.6
OTHER			
Specific Gravity	ASTM D792	-	1.15
Flammability Class	UL 94	-	HB
Water Absorption	ASTM D570	%	0.3
ASTM Classification	ASTM D788	-	0241V5

* Typical Properties are not intended for specification purposes

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