ACRYLITE® L40

Polymethyl Methacrylate Acrylic

Evonik Cyro LLC

Message:

ACRYLITE® L40 acrylic polymer is an amorphous thermoplastic molding compound based on polymethyl methacrylate (PMMA).
Typical properties of ACRYLITE® acrylic polymers are:
excellent weather resistance
high light transmission
high mechanical strength
high surface hardness and mar resistance
good melt flow rate
versatile colorability due to crystal clarity
The special properties of ACRYLITE® L40 polymer are:
low heat resistance
highest melt flow rate
UV light transmitting
medium levels of lubricant
Application:
Used for injection molding thin-wall medical devices requiring UV spectroscopy for fluid evaluation.

General Information	
Additive	Lubricant
Features	Amorphous Good Colorability Good Flow Good Weather Resistance High Clarity High Hardness High Strength Lubricated Scratch Resistant
Uses	Medical/Healthcare Applications Thin-walled Parts
Agency Ratings	EC 1907/2006 (REACH)
Appearance	Clear/Transparent
Forms	Pellets
Processing Method	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm³	ASTM D792
Apparent Density	0.66	g/cm³	ASTM D1895
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	26	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 to 0.60	%	ASTM D955
Water Absorption (Equilibrium)	< 0.30	%	ASTM D570

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	84		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3240	MPa	ASTM D638
Tensile Strength	60.7	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	2.0 to 4.0	%	
Break	2.0 to 4.0	%	
Flexural Modulus	3030	MPa	ASTM D790
Flexural Strength	97.9	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 6.35 mm)	19	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Annealed, 6.35 mm)	74.0	°C	ASTM D648
Vicat Softening Temperature	82.0	°C	ASTM D1525
CLTE - Flow (0 to 156°C)	7.2E-5	cm/cm/°C	ASTM D696
Optical	**Nominal Value**	**Unit**	**Test Method**
Transmittance (3200 µm)	92.0	%	ASTM D1003
Haze (3200 µm)	< 1.0	%	ASTM D1003
Yellowness Index (3.20 mm)	< 1.0	YI	ASTM D1925

Recommended distributors for this material

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WECHAT