

ACRYLITE® Optical POQ66

Polymethyl Methacrylate Acrylic
Evonik Cyro LLC

Message:

ACRYLITE® Optical SuPure® and ACRYLITE® POQ 66 are used for optically critical applications such as sophisticated light pipes that require the complete lack of visible black specks critical in boosting the effectiveness of light distribution through the light channel.

ACRYLITE® Optical POQ66 has formulation refinements that further ensure its high optical pureness. Millions of pounds of ACRYLITE® Optical POQ66 have been sold into the manufacture of optical light guides for backlight units in TFT-LCE displays. Specially designed packaging options ensure that purity is maintained during delivery.

ACRYLITE® Optical POQ66 is excellent for long path light guide applications but it should not be used for outdoor applications and should only be used with LED lighting sources.

General Information			
Features	High Clarity		
	High Purity		
Uses	Lighting Applications		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	Clear/Transparent		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/3.8 kg)	2.30	cm ³ /10min	ISO 1133
Water Absorption (Equilibrium, 23°C, 50% RH)	< 2.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3200	MPa	ISO 527-2/1
Tensile Stress (Break)	69.0	MPa	ISO 527-2/5
Tensile Strain (Break)	4.0	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	20	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	94.5	°C	ISO 75-2/A
Glass Transition Temperature	108	°C	IEC 10006
Vicat Softening Temperature	104	°C	ISO 306/B50
CLTE - Flow (0 to 50°C)	8.0E-5	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value	Test Method	
Flame Rating (1.60 mm)	HB	UL 94	
Fire Rating	B2	DIN 4102	
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.490		ISO 489

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