ACRYLITE® Optical SuPure® 8N

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 SuPure® acrylic polymer is an exceptionally pure polymer designed for applications that demand maximum cleanliness. Evonik's proprietary purification process starts at the manufacturing facility and extends to your operation's processing point, resulting in a solution of total purity. The ACRYLITE® Optical SuPure® solution provides a polymer free of dust, fines and contaminant that consistently delivers exceptional clarity and eliminates costly defects.
Ideal for automotive applications such as instrument cluster lenses, interior lighting and telematics covers. ACRYLITE® Optical SuPure® also provide outstanding results in optical applications since it offers better clarity and quality of light transmission than glass.
ACRYLITE® Optical SuPure® is available in 8N. Other grade options are available upon request.

General Information			
Features	High Clarity High Purity		
Uses	Automotive Applications Lenses Lighting Applications		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	Clear/Transparent		
Forms	Pellets		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.19	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/3.8 kg)	3.00	cm³/10min	ISO 1133
Water Absorption (Equilibrium, 23°C, 50% RH)	< 2.0	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3300	MPa	ISO 527-2/1
Tensile Stress (Break)	77.0	MPa	ISO 527-2/5
Tensile Strain (Break)	5.5	%	ISO 527-2/5
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength	20	kJ/m²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	98.0	°C	ISO 75-2/A
Glass Transition Temperature	117	°C	IEC 10006
Vicat Softening Temperature	108	°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
Transmittance	92.0	%	ISO 13468-2

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

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