ACRYLITE® Satinice df22 8N

Polymethyl Methacrylate Acrylic **Evonik Cyro LLC**

Technical Data

Product Description

ACRYLITE® Satinice of light diffusing acrylic polymers meet the demanding requirements for the injection molding or extrusion of lighting products in residential, industrial, office and automotive interior applications. These light diffusing acrylic polymers are available in four ACRYLITE® grades and an impact resistant grade.

Class

General

- ASTM D-788-84 : 8
- ASTM D-788-93 : PMMA0140V2

Jeneral			
Material Status	 Commercial: Active 		
Literature ¹	 Processing - Injection Molding (English) Technical Datasheet (English) 		
Search for UL Yellow Card	Evonik Cyro LLC ACRYLITE®		
Availability	 North America 		
Features	 Good Light Diffusion 	Weather Resistant	
Uses	Automotive ApplicationsIndustrial Applications	Lighting ApplicationsLighting Diffusers	
Agency Ratings	• EC 1907/2006 (REACH)		
Forms	Pellets		
Processing Method	Extrusion	Injection Molding	
Physical		Nominal Value Unit	Test Method
Density / Specific Gravity		1.19 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/	3.8 kg)	3.0 g/10 min	ASTM D1238
Molding Shrinkage - Flow		0.30 to 0.60 %	ASTM D955
Water Absorption (Equilibrium)		< 0.30 %	ASTM D570
Aechanical		Nominal Value Unit	Test Method
Tensile Modulus		3790 MPa	ASTM D638
Tensile Strength		79.3 MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield		4.0 %	
Break		4.0 %	
Flexural Modulus		3450 MPa	ASTM D790
Flexural Strength		138 MPa	ASTM D790
mpact		Nominal Value Unit	Test Method
Notched Izod Impact (23°C, 6.35 mm	1)	16 J/m	ASTM D256
Hardness		Nominal Value Unit	Test Method

Rockwell Hardness (M-Scale) ASTM D785 95 Thermal Nominal Value Unit **Test Method Deflection Temperature Under Load** ASTM D648 105 °C 1.8 MPa, Annealed Vicat Softening Temperature 119°C ASTM D1525 CLTE - Flow (0 to 100°C) 7.2E-5 cm/cm/°C ASTM D696 Flammability Nominal Value Unit Test Method Flame Rating HB UL 94 Nominal Value Unit Optical Test Method Refractive Index 1.498 ASTM D542 Transmittance 88.0% **ASTM D1003**

Haze

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ASTM D1003

94 %

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Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.



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Where to Buy

Supplier

Evonik Cyro LLC Parsippany, NJ USA Telephone: 800-631-5384 Web: http://www.acrylite-polymers.com

Distributor

Amco Polymers Telephone: 800-262-6685 Web: http://www.amcopolymers.com/ Availability: North America

Channel Prime Alliance Telephone: 800-247-8038 Web: http://www.channelpa.com/ Availability: North America

Nexeo Solutions Telephone: 800-531-7106 Web: http://www.nexeosolutions.com/ Availability: North America



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