

# ACRYLITE® Satinice df22 8N

Polymethyl Methacrylate Acrylic

Evonik Cyro LLC

# PROSPECTOR®

www.ulprospector.com

## Technical Data

### Product Description

ACRYLITE® Satinice df 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

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

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Processing - Injection Molding (English)</a> • <a href="#">Technical Datasheet (English)</a>
Search for UL Yellow Card	• <a href="#">Evonik Cyro LLC</a> • <a href="#">ACRYLITE®</a>
Availability	• North America
Features	• Good Light Diffusion      • Weather Resistant
Uses	• Automotive Applications      • Lighting Applications • Industrial Applications      • Lighting 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 <sup>3</sup>	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

Mechanical	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

Impact	Nominal Value Unit	Test Method
Notched Izod Impact (23°C, 6.35 mm)	16 J/m	ASTM D256

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (M-Scale)	95	ASTM D785

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ASTM D648
1.8 MPa, Annealed	105 °C	
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

Optical	Nominal Value Unit	Test Method
Refractive Index	1.498	ASTM D542
Transmittance	88.0 %	ASTM D1003
Haze	94 %	ASTM D1003



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### Notes

<sup>1</sup> 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.

<sup>2</sup> Typical properties: these are not to be construed as specifications.



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### Where to Buy

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#### Supplier

##### Evonik Cyro LLC

Parsippany, NJ USA

Telephone: 800-631-5384

Web: <http://www.acrylite-polymers.com>

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#### 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

