

# ACRYLITE® Satinice df22 8N

Röhm GmbH - Polymethyl Methacrylate Acrylic

Tuesday, January 21, 2020

## General Information

### 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
Availability	• North America
Features	• Good Light Diffusion      • Good Weather Resistance
Uses	• Automotive Applications      • Lighting Applications • Industrial Applications      • Lighting Diffusers
Agency Ratings	• EC 1907/2006 (REACH)
Forms	• Pellets
Processing Method	• Extrusion      • Injection Molding

## ASTM & ISO Properties <sup>1</sup>

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 (Yield)	4.0	%	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
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 (1.8 MPa, Annealed)	105	°C	ASTM D648
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

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Optical	Nominal Value	Unit	Test Method
Transmittance	88.0	%	ASTM D1003
Haze	94.0	%	ASTM D1003

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.