

ACRYLITE® Satinice df20 8N

Polymethyl Methacrylate Acrylic
Evonik Cyro LLC

Message:

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 : 6
ASTM D-788-93 : PMMA0122V7

General Information	
Features	Good Weather Resistance
Uses	Automotive Applications
	Industrial Applications
	Lighting Applications
	Lighting Diffusers
Agency Ratings	EC 1907/2006 (REACH)
Forms	Pellets
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	3.2	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 to 0.60	%	ASTM D955
Water Absorption (Equilibrium)	< 0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	95		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3720	MPa	ASTM D638
Tensile Strength	78.3	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	4.0	%	
Break	4.0	%	
Flexural Modulus	3450	MPa	ASTM D790
Flexural Strength	131	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.35 mm)	16	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Annealed)	105	°C	ASTM D648
Vicat Softening Temperature	117	°C	ASTM D1525
CLTE - Flow (0 to 100°C)	7.2E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.492		ASTM D542
Transmittance	90.0	%	ASTM D1003
Haze	50	%	ASTM D1003

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