

ACRYLITE® Satinice df23 8N

聚甲基丙烯酸甲酯-丙烯酸

Evonik Cyro LLC

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

Features	• Good Light Diffusion	• 耐气候影响性能良好
Uses	• Lighting Applications • 工业应用	• 汽车领域的应用 • 照明漫射器
Agency Ratings	• EC 1907/2006 (REACH)	
Forms	• 粒子	
Processing Method	• 挤出	• 注射成型

Physical

	额定值 单位制	测试方法
Density / Specific Gravity	1.19 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	2.9 g/10 min	ASTM D1238
Molding Shrinkage - 流动	0.30 到 0.60 %	ASTM D955
Water Absorption (平衡)	< 0.30 %	ASTM D570

Mechanical

	额定值 单位制	测试方法
Tensile Modulus	3790 MPa	ASTM D638
Tensile Strength	79.3 MPa	ASTM D638
Tensile Elongation		ASTM D638
屈服	4.0 %	
断裂	4.0 %	
Flexural Modulus	3450 MPa	ASTM D790
Flexural Strength	131 MPa	ASTM D790

Impact

	额定值 单位制	测试方法
Notched Izod Impact (23°C, 6.35 mm)	16 J/m	ASTM D256

Hardness

	额定值 单位制	测试方法
Rockwell Hardness (M 级)	95	ASTM D785

Thermal

	额定值 单位制	测试方法
Deflection Temperature Under Load 1.8 MPa, 退火	105 °C	ASTM D648
Vicat Softening Temperature	119 °C	ASTM D1525
CLTE - 流动 (0 到 100°C)	7.2E-5 cm/cm/°C	ASTM D696

Flammability

	额定值 单位制	测试方法
Flame Rating	HB	UL 94

Optical

	额定值 单位制	测试方法
Refractive Index	1.498	ASTM D542
Transmittance	86.0 %	ASTM D1003
Haze	96 %	ASTM D1003