

ACRYLITE® Satinice ZD 24

Polymethyl Methacrylate Acrylic

Evonik Cyro LLC

Message:

ACRYLITE® Satinice ZD 24 polymer is an amorphous, impact-modified light diffusing thermoplastic molding and extrusion compound based on polymethyl methacrylate (PMMA).

Typical properties of ACRYLITE® Satinice zd polymers are:

- high weather resistance
- superior light diffusion (hiding power) and transmittance
- improved resistance to stress cracking
- good melt flow rate
- easy to color

The special properties of ACRYLITE® Satinice ZD 24 polymer are:

- high impact/break resistance and strength
- high melt strength
- high heat resistance

Application:

Used for extrusion applications including profiles and sheet.

General Information	
Additive	Impact Modifier
Features	Amorphous
	Good Colorability
	Good Flow
	Good Melt Strength
	Good Weather Resistance
	High Heat Resistance
	High Impact Resistance
	High Strength
	Impact Modified
Uses	Automotive Interior Parts
	Lighting Diffusers
	Lighting Fixtures
	Profiles
	Sheet
Agency Ratings	EC 1907/2006 (REACH)
Forms	Pellets
Processing Method	Extrusion
	Injection Molding
	Profile Extrusion
	Sheet Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	0.80	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)	63		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2280	MPa	ASTM D638
Tensile Strength	50.5	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	4.0 to 6.0	%	
Break	43	%	
Flexural Modulus	2070	MPa	ASTM D790
Flexural Strength	129	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.35 mm)	33	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed, 6.35 mm)	83.3	°C	ASTM D648
Vicat Softening Temperature	97.8	°C	ASTM D1525
CLTE - Flow (0 to 100°C)	7.2E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.490		ASTM D542
Transmittance (3200 μm)	87.0	%	ASTM D1003
Haze (3200 μm)	97	%	ASTM D1003
Yellowness Index (3.20 mm)	3.0	YI	ASTM D1925

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