

ACRYLITE® Satinice ZD 23

Polymethyl Methacrylate Acrylic
Evonik Cyro LLC

Message:

ACRYLITE® Satinice ZD 23 polymer is an amorphous, impact-modified light diffusing thermoplastic molding and extrusion compound based on polymethyl methacrylate (PMMA).
Typical properties of ACRYLITE® Satinice zdf 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 23 polymer are:
high impact/break resistance and strength
medium melt flow rate
high heat resistance
FDA food contact uses
Application:
Used for injection molded parts.

General Information	
Additive	Impact Modifier
Features	Amorphous
	Food Contact Acceptable
	Good Colorability
	Good Weather Resistance
	High Heat Resistance
	High Impact Resistance
	High Strength
	Impact Modified
Uses	Medium Flow
	Appliances
	Household Goods
	Housings
	Lenses
	Lighting Applications
	Lighting Diffusers
	Writing Instruments
Agency Ratings	FDA Food Contact, Unspecified Rating
Forms	Pellets
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm ³	ASTM D792
Apparent Density	0.71	g/cm ³	ASTM D1895
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	3.1	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)	44		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1720	MPa	ASTM D638
Tensile Strength	44.1	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	4.0	%	
Break	20	%	
Flexural Modulus	1790	MPa	ASTM D790
Flexural Strength	68.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
0°C, 6.35 mm	27	J/m	
23°C, 6.35 mm	53	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed, 6.35 mm)	85.0	°C	ASTM D648
Vicat Softening Temperature	108	°C	ASTM D1525
CLTE - Flow (0 to 100°C)	9.0E-5	cm/cm/°C	ASTM D696
Optical	Nominal Value	Unit	Test Method
Transmittance (3200 μm)	85.0	%	ASTM D1003
Haze (3200 μm)	96	%	ASTM D1003
Yellowness Index (3.20 mm)	5.5	YI	ASTM D1925

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