PRODUCT INFORMATION

ACRYLITE® 8N df21 Molding Compound

Product Profile:

ACRYLITE® Satinice df21 8N, based on ACRYLITE® 8N, is characterized by diffuse scattering of light.

Typical properties of ACRYLITE® molding compound are

• good melt flow rate
• high mechanical strength, surface hardness and mar resistance
• very good weather resistance.

Special properties of ACRYLITE® Satinice df21 8N are

• good lightdiffusion combined with excellent light transmission.

Application:

Used for injection molding items for lighting engineering applications

Examples:

displays, backlight units

Processing:

ACRYLITE® Satinice df21 8N can be processed on injection molding machines with 3-zone general purpose screws for engineering thermoplastics.

Physical Form / Packaging:

ACRYLITE® Satinice df molding compounds are supplied as pellets of uniform size, packaged in 25kg polyethylene bags; other packaging on request.

Properties:

	Parameter	Unit	ASTM-Standart	ACRYLITE® 8N df21 Molding Compound
Mechanical Properties				**Typical Value**
Tensile Strength		psi [MPa]	D 638	11500 [79.3]
Tensile Modulus		x10⁶ psi [GPa]	D 638	0.55 [3.8]
Tensile Elongation @ Yield		%	D 638	4
Tensile Elongation @ Break		%	D 638	4
Flexural Strength		psi [MPa]	D 790	20000 [138]
Flexural Modulus		x10⁶ psi [GPa]	D 790	0.5 [3.5]
Notched Izod	¼" bar @23°C	ft-lb/in [J/m]	D 256	0.3 [16]
Rockwell Hardness		1	D 785	95
Thermal Properties				
Vicat Softening Point	50N, 50°C/h	°F [°C]	D 1525	246 [119]
Deflection Temperature, Annealed	1.8MPa, 0.250"	°F [°C]	D 648	221 [105]
Coeff. of Linear Therm. Expansion	32 - 312ºF	1/F	D 696	0.00004
Coeff. of Linear Therm. Expansion	0 - 100°C	1/C	D 696	0.000072
Rheological Properties				
Melt Flow Rate	230°C & 3.8 kg	g/10min	D 1238	3.1
Optical Properties	d = 3.2 mm			
Light Transmission		%	D 1003	90
Haze		%	D 1003	83
Yellowness Index			E 313	<2
Other Properties				
Specific Gravity			D 792	1.19
Water Absorption		% Max	D 570	0.3
Mold Shrinkage		in/in, mm/mm	D 955	0.003 - 0.006
Bulk Density		in/in, mm/mm	D 1895	0.66
Recommended Processing Conditions				
Predrying Temperature		F [°C]		175 [80]
Predrying Time in Desiccant-Type Drier		h		3 – 4
Melt Temperature		F [°C]		464 - 482 [240 - 250]
Mold Temperature (Injection Molding)		F [°C]		100 - 175 [38 - 80]
Die Temperature (Extrusion)		F [°C]		464 - 482 [240 - 250]

All listed technical data are typical values intended for your guidance. They are given without obligation and do not constitute a materials specification.

Certified to ISO 9001:2015, ISO 14001:2015 and IATF 16949:2016.

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