

Product Texts

Productprofil:

PLEXIGLAS® Softlight 8N df21 molding compound, based on PLEXIGLAS® 8N, is characterized by diffuse scattering of light.

Typical properties of PLEXIGLAS® molding compound are

- 1. good flow
- 2. high mechanical strength, surface hardness and mar resistance
- 3. very good weather resistance.

Special properties of PLEXIGLAS® Softlight 8N df21 are

- 1. good lightdiffusion combined with excellent light transmission.

Application:

Used for injection molding items for lighting engineering applications

Example:

displays, backlight units

Processing:

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

Physical Form / Packaging:

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

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	2.5	cm ³ /10min	ISO 1133
Temperature	230	°C	-
Load	3.8	kg	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	3300	MPa	ISO 527
^[C] Stress at break	71	MPa	ISO 527
^[C] Strain at break	4.5	%	ISO 527
^[C] Charpy impact strength, +23°C	18	kJ/m ²	ISO 179/1eU

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Glass transition temperature, 10°C/min	111	°C	ISO 11357-1/-2
^[C] Temp. of deflection under load, 1.80 MPa	98	°C	ISO 75-1/-2

PLEXIGLAS® Softlight 8N df21

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^[C] Temp. of deflection under load, 0.45 MPa	103	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	109	°C	ISO 306
^[C] Coeff. of linear therm. expansion, parallel	63	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
^[C] Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	1E13	Ohm	IEC 62631-3-2

[C]: CAMPUS

Optical properties	Value	Unit	Test Standard
ISO Data			
^[C] Luminous transmittance	87	%	ISO 13468-1, -2

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Density	1190	kg/m ³	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
ISO Data			
^[C] Injection Molding, melt temperature	248	°C	ISO 294
Injection Molding, mold temperature	69	°C	ISO 294
Injection Molding, injection velocity	195	mm/s	ISO 294

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Delivery form

Pellets

Additives

Release agent

Special Characteristics

Light stabilized or stable to light, U.V. stabilized or stable to weather

Features

Light Diffusing

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Other text information**Injection molding****PREPROCESSING**

Predrying temperature: max. 95 °C

Predrying time in a desiccant-type drier: 2 - 3 h

PROCESSING

Melt temperature: 220 - 260°C

Mold temperature: 60 - 90°C