

PRODUCT INFORMATION

ACRYLITE® 8N plus

Product Profile:

ACRYLITE® 8N plus is an amorphous thermoplastic molding compound (PMMA) with improved mechanical properties.

Typical properties of ACRYLITE® molding compounds are:

- good flow
- high mechanical strength, surface hardness and abrasion resistance
- high light transmission
- very good weather resistance
- free color-ability due to crystal clarity

Special properties of ACRYLITE® 8N plus are:

- improved shock / vibration resistance
- improved demolding behavior
- enhanced chemical resistance
- maximum heat deflection temperature
- good flow / melt viscosity
- AMECA listing.

Application:

Used for injection molding technical items.

Examples:

luminaire covers, automotive applications, instrument cluster covers, displays, etc

Processing:

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

Physical Form / Packaging:

ACRYLITE® molding compounds are supplied as pellets of uniform size, packaged in 25 kg polyethylene bags or in 500 kg boxes with PE lining; other packaging on request

Properties:

	Parameter	Unit	Standard	ACRYLITE® 8N plus
Mechanical Properties				
Tensile Modulus	1 mm/min	MPa	ISO 527	3050
Stress @ Break	5 mm/min	MPa	ISO 527	69
Strain @ Break	5 mm/min	%	ISO 527	19
Charpy Impact Strength	23°C	kJ/m ²	ISO 179/1eU	22
Thermal Properties				
Vicat Softening Temperature	B / 50	°C	ISO 306	105
Glass Transition Temperature		°C	ISO 11357	114
Temp. of Deflection under Load	0.45 MPa	°C	ISO 75	102
Temp. of Deflection under Load	1.8 MPa	°C	ISO 75	97
Coeff. of Linear Therm. Expansion	0 - 50°C	E-5 /°K	ISO 11359	8
Rheological Properties				
Melt Volume Rate, MVR	230°C / 3.8kg	cm ³ /10min	ISO 1133	2.6
Optical Properties				
	d=3 mm			
Luminous transmittance	D65	%	ISO 13468-2	92
Haze		%	ASTM D1003	<1
Refractive Index	589nm/23°C		ISO 489	1.48
Other Properties				
Density		g/cm ³	ISO 1183	1.19
Recommended Processing Conditions				
Predrying Temperature		°C		max. 80
Predrying Time in Desiccant-Type Drier		h		2 - 3
Melt Temperature		°C		220 - 260
Mold Temperature (Injection Molding)		°C		60 - 90

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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