PLEXIGLAS® Sheet Resist 65

Polymethyl Methacrylate Acrylic

Evonik Industries AG

Message:

Extruded PLEXIGLAS® Resist is a highly weather-resistant sheet material from impact-modified acrylic (polymethyl methacrylate, PMMA). The grades Resist 45, -65, -75, -100 show increasing impact strength in that order. The sheets therefore offer greater break resistance than standard acrylic during transport and handling,
the entire fabrication process,
installation and
subsequent use.
PLEXIGLAS® Resist is highly weather resistant and durable. Unlike other plastics (e. g. PC, PET, PETG) it requires no additional UV protection. PLEXIGLAS® Resist is therefore a highly versatile and absolutely reliable material for
structural glazing outdoors, e. g. barrel vaults for busstops, bicycle stands, walkways,
protective glazing such as general access protection, housings for machines, equipment and workplaces,
vehicle glazing, e. g. windshields for motorcycles and scooters, interior glazing in buses and trains,
glazing of shop fittings and counters,
signage, e. g. illuminated signs, indicator panels, advertising pillars,
P.O.P. displays and sales stands, glazing of vending machines, drawing equipment etc.

General Information	
Additive	Impact Modifier
Features	Bondability
	Cleanable
	Durable
	Food Contact Acceptable
	Good Toughness
	Good Weather Resistance
	Impact Modified
	Machinable
Uses	Automotive Applications
	Displays
	Glazing
	Housings
	Outdoor Applications
Appearance	Clear/Transparent
Forms	Sheet
Processing Method	Thermoforming

Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm³	ISO 1183
Water Absorption - 24 h, 23°C [1]	45.0	mg	ISO 62
Maximum Service Temperature	70	°C	
Fire Rating	B2		DIN 4102

UV Transmittance	None		
Forming Temperature - Reverse	> 80	°C	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2200	MPa	ISO 527-2/1B/1
Tensile Stress [2]	50.0	MPa	ISO 527-2/5
Nominal Tensile Strain at Break	15	%	ISO 527-2/1B/50
Flexural Stress	85.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	6.5	kJ/m^2	ISO 179/1eA
Charpy Unnotched Impact Strength	65	kJ/m^2	ISO 179/1fU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	100	°C	ISO 306/B
CLTE - Flow (0 to 50°C)	8.0E-5	cm/cm/°C	DIN 53752-A
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+14	ohms	VDE 0303-3
Optical	**Nominal Value**	**Unit**	**Test Method**
Transmittance [3]	91.0	%	DIN 5036-3

NOTE	
1.	Method 1, specimen 60 x 60 x 2 mm^3
2.	Type 1B
3.	Wavelength: 380 - 780 nm

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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