

# PLEXIGLAS® Sheet Resist Clear OF01/OR01

Polymethyl Methacrylate Acrylic

Evonik Industries AG

## Message:

Cast PLEXIGLAS® Resist is a highly weather-resistant sheet material made of impact-modified acrylic (polymethyl methacrylate, PMMA). Compared with conventional acrylic, the sheets offer greater impact strength during shipping and handling, the entire fabrication process, installation, and subsequent use.

Cast PLEXIGLAS® Resist is highly weather-resistant and durable, and unlike other plastics (e.g., PC, PET, PETG), requires no additional UV protection. Cast PLEXIGLAS® Resist is therefore a versatile, absolutely reliable material for vehicle glazing, for example, windshields for motorcycles and scooters, interior glazing in buses, and trains and automotive glazing.

General Information			
Additive	Impact Modifier		
Features	Cleanable		
	Durable		
	Good Toughness		
	Good Weather Resistance		
	Impact Modified		
	Machinable		
Uses	Recyclable Material		
	Automotive Applications		
Appearance	Glazing		
	Clear/Transparent		
Forms	Colors Available		
	Sheet		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm <sup>3</sup>	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3000	MPa	ISO 527-2/1B/1
Tensile Stress <sup>1</sup>	70.0	MPa	ISO 527-2/5
Nominal Tensile Strain at Break	9.0	%	ISO 527-2/1B/50
Flexural Stress	105	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	3.2	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength	40	kJ/m <sup>2</sup>	ISO 179/1fU

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	113	°C	ISO 306/B
CLTE - Flow (0 to 50°C)	7.0E-5	cm/cm/°C	DIN 53752-A
Optical	Nominal Value	Unit	Test Method
Transmittance <sup>2</sup>	92.0	%	DIN 5036-3
UV Transmittance	None		
NOTE			
1.	Type 1B		
2.	Wavelength: 380 - 780 nm		

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#### Recommended distributors for this material

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