

Plexiglas® LED white 0V200

Polymethyl Methacrylate Acrylic
Evonik Industries AG

Message:

Product Profile:
PLEXIGLAS® LED white 0V200 is characterized by diffuse scattering of light, based on PLEXIGLAS® 7N, PLEXIGLAS® 7H or PLEXIGLAS® Resist zk6BR. In addition to the known attributes of PLEXIGLAS® base molding compound
very good weather durability
high hardness of the surface and scratch resistance
has PLEXIGLAS® LED white 0V200 the specific nature of a very even light distribution and high transmission values when backlit with intense LED
this is demonstrated at low distance between cover and LED light source as well as with optimized material thickness of the component.

Application:
The coloring of PLEXIGLAS® LED white 0V200 in the respective base molding compound is appropriate for injection molding, extrusion and injection blow molding for manufacturing molded parts for lighting applications with LED back lighting.

Examples:
Light covers, LED-lighting rails, bulbs, facade lighting and lighting switches

Processing:
In regards to manufacturing the remarks in the product information of base molding compounds should be considered.

Physical Form / Packaging:
PLEXIGLAS® LED white 0V200 can be supplied in any base molding compound, when obtaining a certain minimum amount, as pellets of uniform size in a two layered 25 kg Polyethylen bag, further packaging upon request.

Order example:
PLEXIGLAS® LED zk6BR white 0V200

General Information			
Features	Durable		
	Good Weather Resistance		
	High Clarity		
	High Hardness		
	Scratch Resistant		
Uses	LEDs		
	Lighting Diffusers		
	Lighting Fixtures		
	Optical Applications		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Blow Molding		
	Injection Molding		
Optical	Nominal Value	Unit	Test Method
Transmittance ¹			ISO 13468-2
1000 µm	73.0	%	
2000 µm	55.0	%	

3000 μm	45.0	%	
4000 μm	38.0	%	
Luminance			
1.00 mm	< 114	cd/m^2	
2.00 mm	< 58.0	cd/m^2	
3.00 mm	< 44.0	cd/m^2	
4.00 mm	< 36.0	cd/m^2	
Half-Value Angle			DIN 5036
1.00 mm	37.0	°	
2.00 mm	68.0	°	
3.00 mm	73.0	°	
4.00 mm	74.0	°	
Scattering Power			DIN 5036
1.00 mm	0.460		
2.00 mm	0.660		
3.00 mm	0.760		
4.00 mm	0.810		
NOTE			

1. D65

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