

Plexiglas® LED white 0V606

Polymethyl Methacrylate Acrylic
Evonik Industries AG

Message:

Product Profile:
PLEXIGLAS® LED white 0V606 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 0V606 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. Components that are manufactured with this coloring appear optically white in reflected light.

Application:
The coloring of PLEXIGLAS® LED white 0V606 in the respective base molding compound is appropriate for injection molding, extrusion und 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 0V606 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 0V606

General Information			
Features	Durable		
	Good Weather Resistance		
	High Clarity		
	High Hardness		
	Scratch Resistant		
Uses	LEDs		
	Lighting Diffusers		
	Lighting Fixtures		
	Optical Applications		
	Switches		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Blow Molding		
	Injection Molding		
Optical	Nominal Value	Unit	Test Method
Transmittance ¹			ISO 13468-2
1000 µm	71.0	%	

2000 μm	52.0	%	
3000 μm	44.0	%	
4000 μm	37.0	%	
Luminance			
1.00 mm	91.0	cd/m^2	
2.00 mm	48.0	cd/m^2	
3.00 mm	39.0	cd/m^2	
4.00 mm	34.0	cd/m^2	
Half-Value Angle			DIN 5036
1.00 mm	37.0	°	
2.00 mm	69.0	°	
3.00 mm	74.0	°	
4.00 mm	75.0	°	
Scattering Power			DIN 5036
1.00 mm	0.480		
2.00 mm	0.700		
3.00 mm	0.760		
4.00 mm	0.780		
NOTE			
1.	D65		

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