

ACRYLITE® LED White 0V200

Röhm GmbH - Polymethyl Methacrylate Acrylic

Tuesday, January 21, 2020

General Information

Product Description

ACRYLITE® LED White 0V200 is specifically engineered for uniform light distribution when backlit with strong LED light sources. Combined with high light transmission, the diffusion grade also has the ability to eliminate disturbing hotspots (spots of light created by the LED source). These properties make it possible to reduce the spacing required between the cover and the light source, optimizing the wall thickness of the component. ACRYLITE® LED White 0V200 has slightly higher light transmission than its counterpart (0V606), while still retaining the light diffusing nature of the grade.

ACRYLITE® LED White 0V200 is characterized by diffuse scattering of light, and is offered in the following ACRYLITE® polymers: ACRYLITE® 8N, ACRYLITE® H12, ACRYLITE® H15, and ACRYLITE® Resist zkX.

Typical properties of ACRYLITE® acrylic polymers are:

- excellent weather resistance
- high mechanical strength
- high surface hardness and mar resistance
- various melt flow rate

General

Material Status	• Commercial: Active		
Availability	• North America		
Features	• Good Light Diffusion • Good Weather Resistance	• High Hardness • High Light Transmission	• High Scratch Resistance • High Strength
Uses	• Lighting Applications • Lighting Diffusers	• Lighting Fixtures • Switches	
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Blow Molding	• Injection Molding

ASTM & ISO Properties¹

Optical	Nominal Value	Unit	Test Method
Transmittance ²			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	
Additional Information	Nominal Value	Unit	Test Method
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	°	

UL and the UL logo are trademarks of UL LLC © 2020. All Rights Reserved.

The information presented here was acquired by UL from the producer of the product or material or original information provider. However, UL assumes no responsibility or liability for the accuracy of the information contained on this website and strongly encourages that upon final product or material selection information is validated with the manufacturer. This website provides links to other websites owned by third parties. The content of such third party sites is not within our control, and we cannot and will not take responsibility for the information or content.

ACRYLITE® LED White 0V200

Röhm GmbH - Polymethyl Methacrylate Acrylic

Additional Information	Nominal Value	Unit	Test Method
Scattering Power			DIN 5036
1.00 mm	0.460		
2.00 mm	0.660		
3.00 mm	0.760		
4.00 mm	0.810		

Notes

¹ Typical properties: these are not to be construed as specifications.

² D65