

ACRYLITE® Film 0F003

PMMA Film
Evonik Cyro LLC

Message:

ACRYLITE® Film 0F003 is a UV and weather resistant acrylic film with one side matt and another side glossy surface. It also presents high light transmission and transparency.

Due its two different surfaces the film provides freedom for different finishing effects after printing and/or molding.

The matt finishing side provides anti-blocking effect in printing processes and a light scattering can be achieved when used in illumination applications.

ACRYLITE® Film 0F003 also presents a good scratch resistance when compared to other polymeric films.

Application

The combination among printability, cut-to-size, die cutting, scratch resistance and anti-blocking effect leads ACRYLITE® Film 0F003 to be a good material to be used in film decoration in forming, back molding or over molding parts such as automotive, household, home appliances, electronic devices.

In illumination applications, ACRYLITE® Film 0F003 provides a very good combination in between light transmission and light diffusion providing a light scattering effect.

General Information			
Features	Antiblocking		
	Excellent Printability		
	Good UV Resistance		
	Good Weather Resistance		
	Scratch Resistant		
Uses	Appliances		
	Automotive Applications		
	Electrical/Electronic Applications		
	Household Goods		
	Overmolding		
Appearance	Clear/Transparent		
Forms	Film		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	DIN 53479
Surface Tension	50	mN/m	DIN 53364
UV Transmittance - 280 - 380 nm	< 5.0	%	DIN EN 410
Accelerated Weathering Resistance - method A, cycle 1, 65% RH ¹	No Visible Change		ISO 4892-2
Films	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	51.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
Yield	13	%	
Break	25	%	
Thermal	Nominal Value	Unit	Test Method

Glass Transition Temperature	113	°C	ISO 11357-2
Optical	Nominal Value	Unit	Test Method
Gloss			DIN 67530
60° ²	85		
60° ³	2		
Refractive Index	1.490		ISO 489
Transmittance ⁴	87.0	%	ISO 13468-2
NOTE			
1.	3,000 hr		
2.	Glossy Side		
3.	Matt Side		
4.	D65		

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