

PRODUCT DESCRIPTION - DATA SHEET

Linegard™ is a coated polycarbonate sheet with anti-fog properties on one side and mar resistance on the other side. excellent candidate to offer a superior performance in the visor/eye protection industry. Typical applications include: face shields, motorcycle visors, industrial visors and goggles, sport goggles and sunglasses.

Typical Properties

Revision: 06/2010

Standard
LineGard™ Anti-Fog
General Properties

Bulk Density	ISO 1183	1,2 g/cm ³
Water Absorption 24h, 23°C	ISO 62	< 8 mg/kg

Mechanical Characteristics

Tensile Strength	ISO 527	60 MPa
Elongation at Tear	ISO 527	110%
Modulus of Elasticity	ISO 527	2200 Mpa
Impact Resistance	ISO 179	not broken
Thickness of Layer		4 - 8 µm
Adhesive Properties	ISO 2409	GT 0

Thermal Characteristics

Vicat Diluting Temperature VST/B 50	ISO 306	150°C
Constancy Temperature HDT/A (1,8 N/mm ²)	ISO 75	135°C
Temperature of Permanent Use	DIN 53446	115°C
Linear Coefficient of Cubical Thermal Expansion (a)	DIN 53752	65x10 ⁻⁶
Heat Conductibility (λ)	DIN 52612	0,21 W/mK
Specific Heat (c)		1,3 J/gK

Optical Characteristics

Transparency 380-780 nm D = 3 mm	DIN 5036	> 90%
Haze	ASTM D1003	<1,0%
Chamfer Angle	DIN 52305	<5 Bg'
Refractive Power	DIN 52305	< 0,1 dpt

Elastical Characteristics

Specific Volume Resistivity	DIN VDE 0303	10 ⁵ Ω cm
Dielectric Strength	DIN EN 60243	> 30 kV/mm

Special Characteristics

Anti-Fog Effect (Water-Bath 50°; Distance 4cm;

In Comprasion To Uncoated PC)

Behaviour in Fire

DIN 4102

5 times longer
Fire Classification B 2
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