

## TECHNICAL DATA SHEET

### LineGard Anti-Fog

*LineGard Anti-Fog Coating for PC*



#### Typical Properties

Revision: 06/2010

#### Standard

#### LineGard Anti-Fog

#### General Properties

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

#### Mechanical Characteristics

Tensile Strengths	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 <sup>2</sup> )	ISO 75	135°C
Temperature of Permanent Use	DIN 53446	115°C
Linear Coefficient of Cubical Thermal Expansion (α)	DIN 53752	65x10 <sup>-6</sup> K <sup>-1</sup>
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

#### Electrical Characteristics

Specific Volume Resistivity	DIN VDE 0303	10 <sup>15</sup> Ωcm
Dielectric Strength	DIN EN 60243	> 30 kV/mm

#### Special Characteristics

Anti-Fog Effect (Water-Bath 50°C; Distance 4cm; In Comparison To Uncoated(PC))		5 times longer
Behaviour in Fire	DIN 4102	Fire Classification B 2