



## **Technical films**

## Lexan® 8B28 | TC 00115

Description: Lexan® 8B28 | TC 00115 is a one-sided velvety, one-sided fine matt

polycarbonate film that is available in either a white opaque or translucent form.

Properties: Lexan® 8B28 | TC 00115 has high heat resistance and excellent dimensional

stability. Lexan® 8B28 | TC 00115 also impresses with its good printability and

is easy to process.

**Applications:** Lexan® 8B28 | TC 00115 is used in various applications such as lampshades,

for indirect lighting, nameplates, dials or as diffusion film.

Forms of delivery: Lexan® 8B28 | TC 00115 can be supplied in the form of punched or molded

parts, as cut-to-size pieces, as strips or on rolls. Other delivery forms and

dimensions on request.

- Production and distribution of electrical insulation materials, thermally conductive products, seals and technical films
- Production of stamped parts, blanks and moulded parts
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Properties	Testmethod	Unit	Values
Tensile strength with yield	ASTM D882	psi	8500
	ISO 527	MPa	62
General tensile strength	ASTM D882	psi	9000
	ISO 527	MPa	65
Tensile Modulus	ASTM D882	psi	300000
	ISO 527	MPa	2506
Tensile Elongation at Break	ASTM D882	%	100 – 160
	ISO 527	%	100 – 154
Gardner Impact Strenght at 0,75	ASTM D3029	ft-lb	23
mm	ISO 6603-1	J	31
Tear Strength Initiation	ASTM D1004	lb/mil	1,4 – 1,8
	4.0T14.D.4000	kN/m	245
Tear Strength Propogation	ASTM D1922	g/mil	30 – 55
Duratura Danistana (Duratura)	A OTA DOZCO	g/mil	10 – 20
Puncture Resistance (Dynatup)	ASTM D3763	ft-lb	9
Fold Endurance (MIT) 0.25 mm	ASTM D2176-69	J Doppelt gefaltet	12 80
Fold Endurance (MIT) 0,25 mm			
Coefficient of Thermal Conductivity	ASTM D5470	W/mK	0,2
Coefficient of Thermal Expansion	ASTM E831	(x10 <sup>-5</sup> /°F)	3,2
·	ISO 11359	(x10 <sup>-5</sup> /°C)	5,8
Specific Heat at 4°C	ASTM E1269	KJ/Kg-°C	1,25
Glass Transition Temperature	ASTM	°F	307
	D3417/D3418	°C	153
	ISO 11357		
Vicat Softening Temperature,	ASTM 1525-00	°F	312
		°C	156
Heat Deflection Temp at 1,8 MPa	ISO 75	°F	350
01 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10TH D 100 1	°C	175
Shrinkage at 150°C	ASTM D1204	%	1,1
Brittleness Temperature	ASTM D746	°F	-211
		°C	-135
Density	ISO 1183	kg/m³	1200
Water Absorption 24 Std.	ASTM D570 ISO 62	%	0,35
Surface Energy	ASTM D5946-01	-	35
Surface Tension, 1st surface	Dyne Pens	Dyne	>44
Surface Tension, 2nd surface	Dyne Pens	Dyne	40 – 42
Light Transmission	ASTM D1003	%	45
Yellowness Index	ASTM D1925	%	19
Haze	ASTM D1003	%	103

Zeppelinring 18 | D-26197 Ahlhorn | Tel.: +49 (0) 4435 97 10 10 | Fax: +49 (0) 4435 97 10 11 info@mueller-ahlhorn.com | www.mueller-ahlhorn.com | Seat of the company: Ahlhorn Managing Director: Dr. Michael Müller | AG Oldenburg: HRB 209026 | Ust. ID-Nr.: DE 295969093 St.-Nr.: 68/207/07677 | Certified according to ISO 9001:2015 and ISO 14001:2015 UL recognised repacker E341377

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Properties	Testmethod	Unit	Values
Gloss at 60°, 0.250 mm thick,	ASTM D523-60	-	15 – 35
matt side	ISO 2813		
Gloss at 60°, 0.375 mm thick,	ASTM D523-60	-	20 – 40
matt side	ISO 2813		
Gloss at 60°, 0.500 - 0.790 mm	ASTM D523-60	-	25 – 45
thick, matt side	ISO 2813		
Gloss at 60°, 0.250 - 0.375 mm	ASTM D523-60	-	4 – 6,5
thick, velvety side	ISO 2813		
Gloss at 60°, 0.500 mm thick,	ASTM D523-60	-	5 – 9
velvety side	ISO 2813		
Gloss at 60°, 0.625 - 0.790 mm	ASTM D523-60	-	6 - 10
thick, matt side	ISO 2813		

Trademark information: Lexan® is a registered trademark of SABIC.

#### Please note:

The information in this technical data sheet is based on our current knowledge and experience. Due to the wide range of possible influences during application, it does not exempt the processor and user from carrying out their own tests and trials. A legally binding guarantee of certain properties or suitability for a specific application cannot be derived from our information. Depending on the individual case, we recommend consulting us. The recipient of our products is responsible for observing any industrial property rights and existing laws.

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