

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.

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Properties	Testmethod	Unit	Values
Tensile strength with yield	ASTM D882 ISO 527	psi MPa	8500 62
General tensile strength	ASTM D882 ISO 527	psi MPa	9000 65
Tensile Modulus	ASTM D882 ISO 527	psi MPa	300000 2506
Tensile Elongation at Break	ASTM D882 ISO 527	% %	100 – 160 100 – 154
Gardner Impact Strenght at 0,75 mm	ASTM D3029 ISO 6603-1	ft-lb J	23 31
Tear Strength Initiation	ASTM D1004	lb/mil kN/m	1,4 – 1,8 245
Tear Strength Propogation	ASTM D1922	g/mil g/mil	30 – 55 10 – 20
Puncture Resistance (Dynatup)	ASTM D3763	ft-lb J	9 12
Fold Endurance (MIT) 0,25 mm	ASTM D2176-69	Doppelt gefaltet	80
Coefficient of Thermal Conductivity	ASTM D5470	W/mK	0,2
Coefficient of Thermal Expansion	ASTM E831 ISO 11359	(x10 ⁻⁵ /°F) (x10 ⁻⁵ /°C)	3,2 5,8
Specific Heat at 4°C	ASTM E1269	KJ/Kg-°C	1,25
Glass Transition Temperature	ASTM D3417/D3418 ISO 11357	°F °C	307 153
Vicat Softening Temperature,	ASTM 1525-00	°F °C	312 156
Heat Deflection Temp at 1,8 MPa	ISO 75	°F °C	350 175
Shrinkage at 150°C	ASTM D1204	%	1,1
Brittleness Temperature	ASTM D746	°F °C	-211 -135
Density	ISO 1183	kg/m ³	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

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

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.