

## Technical films

### Lexan® EFR63 | TC 00430

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**Description:** Lexan® EFR63 | TC 00430 is an environmental friendly flame-retardant polycarbonate film with a polished surface on one side, and a matt surface on the other side.

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**Properties:** Lexan® EFR60 | TC 00430 offers formability, excellent mechanical properties, good dimensional stability at high temperatures, high flammability rating and has a VTM-0 listing at 0,178 mm.

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**Applications:** Lexan® EFR60 | TC 00430 can be used as insulation for power supplies, disc drives, bus-bar, TV/monitors, PC boards and business equipment.

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**Delivery forms:** Lexan® EFR60 | TC 00430 is available as a thermoformed, embossed, die-cut, hydro formed or bended part. The thicknesses range from 0,125 mm to 0,550 mm. Other delivery forms upon customer request.

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## Lexan® EFR63 | TC 00430

Property	Testmethod	Unit	Value
Tensile strength at yield	ISO 527	MPa	58,2
Tensile strength at ultimate	ISO 527	MPa	66,7
Tensile modulus	ISO 527	MPa	2205
Elongation at break	ISO 527	%	>100
Tear strength initiation	ASTM D1004	kN/m	224
Tear strength propagation	ASTM D1338	kN/m	10,5
Puncture resistance (Dynatup)	ASTM D3763	J/mm	25,0
Fold endurance (MIT, 0,254 mm), lengthwise	ASTM D2176-97a	Double folds	57
Fold endurance (MIT; 0,254 mm), crosswise	ASTM D2176-97a	Double folds	45
Coefficient of thermal conductivity, 25°C	ASTM E1530	W/m-k	0,24
Coefficient of thermal expansion, 25°C	ISO 11359	X10 <sup>-5</sup> /°C	6,4
Specific heat, 25°C	ASTM E1269-05	kJ/Kg-°C	1,23
Glass transition temperature	ISO 11357	°C	153
Vicat softening temperature, B at 50 N, 120°C/h	ASTM D1525	°C	151
Heat deflection temperature at 1,8 MPa	ISO 75, modified	°C	131
Shrinkage 150°C/0,5 h, lengthwise	ASTM D1204	%	2,27
Shrinkage 150°C/0,5 h, crosswise	ASTM D1204	%	0,34
Brittleness temperature	ASTM D1790	°C	<-80
Density	ISO 1183	Kg/m <sup>3</sup>	1200
Water absorption 24 h	ISO 62	%	0,14
Surface tension	Dyne Pens	Dyne	36
Refractive index at 25°C	ASTM D542-00		1,6
light transmission	ASTM D1003	%	92,1
Yellowness index	ASTM E313	%	<1,0
Haze	ASTM D1003	%	94,7
Gloss, 60° matt/polished	ASTM D523-60		6,7/104

Dr. Dietrich Müller GmbH

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**Trademark information:** Lexan® is a registered trademark of the company SABIC Innovative Plastics IP BV.

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**Please note:**

The information in this data sheet is based on our current knowledge and experience. They do not disengage the fabricator and the user from own tests and inspections because of the plenty of possible effects. There is no judicial binding assurance of certain properties or of the qualification for a concrete application in our declaration. We recommend consulting us in individual cases. The acceptor of our products has to observe possible industrial property rights as well as present laws by himself.

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Dr. Dietrich Müller GmbH