

LEXAN™ XHRA13 FILM SHEET

PRODUCT DATASHEET

DESCRIPTION

LEXAN™ XHRA13 is polycarbonate-copolymer film that is OSU compliant, low smoke and with good flame characteristics.

TYPICAL PROPERTY VALUES◆

PROPERTY	TEST METHOD	UNITS	TYPICAL VALUE
Physical			
Specific gravity	ASTM D792	g/cm ³	1.34
Water absorption, 50%RH, 23°C	ISO 62	g/cm ³	0.11
Water absorption, saturation, 23°C	ISO 62	%	0.28
Mechanical			
Tensile Strength @ Yield, 50mm/min	ASTM D 638	MPa	76
%Elongation @ Yield	ASTM D 638	%	9
Tensile Strength @ Break, 50mm/min	ASTM D 638	MPa	72
%Elongation @ Break	ASTM D 638	%	58
Tensile Modulus, 50mm/min	ASTM D 638	MPa	2900
Tear Strength – Propagation, Max Load – 2mil	SABIC Internal	N	0.17
Tear Strength – Initiation, Max Load – 2mil	SABIC Internal	N	5.24
Tear Strength – Propagation, Max Load – 3mil	SABIC Internal	N	0.29
Tear Strength – Initiation, Max Load – 3mil	SABIC Internal	N	9.12
Tear Strength – Propagation, Max Load – 5mil	SABIC Internal	N	0.62
Tear Strength – Initiation, Max Load – 5mil	SABIC Internal	N	17.60
Tear Strength – Propagation, Max Load – 7mil	SABIC Internal	N	1.06
Tear Strength – Initiation, Max Load – 7mil	SABIC Internal	N	23.57
Thermal			
Vicat Softening temperature, 50N, 50°C/h	ISO 306	°C	137
Vicat Softening temperature, 50N, 120°C/h	ISO 306	°C	139
Heat deflection temperature, 1.82MPa/3.2mm	ASTM D 638	°C	121
Coefficient of linear thermal expansion, -40 to 40°C	SABIC Internal	Um/(m·°C)	60
Flame Characteristics (2mil – 7mil film)			
Vertical burn, 60 seconds – Burning Time	FAR 25.853	Seconds	<1
Vertical burn, 60 seconds – Burning Length	FAR 25.853	Inches	<5
Vertical burn, 12 seconds – Burning Time	FAR 25.853	Seconds	<1
Vertical burn, 12 seconds – Burning Length	FAR 25.853	Inches	<5
Ohio state heat release	FAR 25.8539(d) App.F	Pass	
NBS smoke density, Ds max – Non Flaming	ASTM F812/E662	-	<10
NBS smoke density, Ds max – Flaming	ASTM F812/E662	-	0
Smoke toxicity – Flaming	BSS 7239	-	Pass
Smoke toxicity – Non Flaming	BBS 7239	-	Pass

◆ These are typical properties and are not intended for specification purposes. If minimum certifiable properties are required, please contact your local SABIC representative or the SABIC Quality Services Department. Reported Values are based on 4mil gauge thickness unless otherwise noted.

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