



LNP™ THERMOCOMP™ Compound Lexan_BFL2200
Europe-Africa-Middle East: COMMERCIAL

design for black light frame application as high flow PC, V-2, high reflection grade.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	560	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	510	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	5.4	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	59	%	ASTM D 638
Tensile Modulus, 5 mm/min	26500	kgf/cm ²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	860	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	22600	kgf/cm ²	ASTM D 790
Tensile Stress, yield, 5 mm/min	55	MPa	ISO 527
Tensile Stress, break, 5 mm/min	47	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	5.4	%	ISO 527
Tensile Strain, break, 5 mm/min	47.9	%	ISO 527
Tensile Modulus, 1 mm/min	0	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	90	MPa	ISO 178
Flexural Modulus, 2 mm/min	0	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	55	cm-kgf/cm	ASTM D 256
Izod Impact, notched, -30°C	16	cm-kgf/cm	ASTM D 256
Instrumented Impact Total Energy, 23°C	0	cm-kgf	ASTM D 3763
Izod Impact, notched 80*10*4 +23°C	30	kJ/m ²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	15	kJ/m ²	ISO 180/1A
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	34	kJ/m ²	ISO 179/1eA
THERMAL			
Vicat Softening Temp, Rate B/50	144	°C	ASTM D 1525



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THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	125	°C	ASTM D 648
CTE, -40°C to 40°C, flow	6.82E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	6.86E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	6.12E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	6.88E-05	1/°C	ISO 11359-2
Vicat Softening Temp, Rate B/50	144	°C	ISO 306
Vicat Softening Temp, Rate B/120	146	°C	ISO 306
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	172	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.28	-	ASTM D 792
Mold Shrinkage, flow, 3.2 mm (5)	0.74 - 0.76	%	SABIC Method
Melt Flow Rate, 300°C/1.2 kgf	36.1	g/10 min	ASTM D 1238
Density	1.28	g/cm ³	ISO 1183
Water Absorption, (23°C/sat)	0.2	%	ISO 62
Moisture Absorption (23°C / 50% RH)	0.1	%	ISO 62
Melt Volume Rate, MVR at 300°C/1.2 kg	35	cm ³ /10 min	ISO 1133