



LEXAN™ Resin RCX7243

Asia Pacific: COMMERCIAL

Lexan* RCX7243 is an impact modified PC blend containing 30% PCR content with non-brominated and non-chlorinated FR for thin-wall applications requiring excellent impact/flow balance performance.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	590	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 50 mm/min	540	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 50 mm/min	4	%	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	60	%	ASTM D 638
Tensile Modulus, 5 mm/min	24400	kgf/cm ²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	1010	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	23900	kgf/cm ²	ASTM D 790
IMPACT			
Izod Impact, notched, 23°C	70	cm-kgf/cm	ASTM D 256
Izod Impact, notched, -30°C	13	cm-kgf/cm	ASTM D 256
Instrumented Impact Total Energy, 23°C	581	cm-kgf	ASTM D 3763
Izod Impact, notched 80*10*3 +23°C	50	kJ/m ²	ISO 180/1A
THERMAL			
Vicat Softening Temp, Rate B/50	104	°C	ASTM D 1525
HDT, 1.82 MPa, 3.2mm, unannealed	86	°C	ASTM D 648
HDT, 0.45 MPa, 6.4 mm, unannealed	101	°C	ASTM D 648
CTE, -40°C to 40°C, flow	7.5E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	7.5E-05	1/°C	ASTM E 831
PHYSICAL			
Specific Gravity	1.19	-	ASTM D 792
Mold Shrinkage, flow, 3.2 mm (5)	0.4 - 0.6	%	SABIC Method
Melt Flow Rate, 260°C/2.16 kgf	19	g/10 min	ASTM D 1238
Water Absorption, (23°C/sat)	0.15	%	ISO 62
FLAME CHARACTERISTICS			
UL Compliant, 94V-2 Flame Class Rating (3)(4)	0.4	mm	UL 94 by SABIC-IP



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
FLAME CHARACTERISTICS			
UL Compliant, 94V-1 Flame Class Rating (3)(4)	0.6	mm	UL 94 by SABIC-IP
UL Compliant, 94V-0 Flame Class Rating (3)(4)	0.75	mm	UL 94 by SABIC-IP



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80 - 90	°C
Drying Time	2 - 4	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	250 - 300	°C
Nozzle Temperature	250 - 300	°C
Front - Zone 3 Temperature	250 - 300	°C
Middle - Zone 2 Temperature	240 - 290	°C
Rear - Zone 1 Temperature	230 - 280	°C
Hopper Temperature	60 - 80	°C
Mold Temperature	60 - 85	°C
Vent Depth	0.03 - 0.075	mm