

# LEXAN™ COPOLYMER EXL8134

**REGION ASIA** 

### **DESCRIPTION**

LEXAN EXL8134 is a PC/siloxane copolymer resin with high flow, excellent low temperature impact and 30% post consumer recycle content. Limited availability and restricted color only. Higher color variability and contamination risks including black specs needs to be considered before approval for use in applications.

## **TYPICAL PROPERTY VALUES**

PROPERTIES **TYPICAL VALUES** UNITS **TEST METHODS** MECHANICAL ASTM D 638 57 Tensile Stress, yld, Type I, 50 mm/min MPa Tensile Stress, brk, Type I, 50 mm/min 55 MPa ASTM D 638 6 ASTM D 638 Tensile Strain, yld, Type I, 50 mm/min % ASTM D 638 Tensile Strain, brk, Type I, 50 mm/min 100 % ASTM D 638 Tensile Modulus, 5 mm/min 2200 MPa Flexural Stress, yld, 1.3 mm/min, 50 mm span ASTM D 790 90 MPa ASTM D 790 Flexural Modulus, 1.3 mm/min, 50 mm span 2100 MPa IMPACT 800 ASTM D 256 Izod Impact, notched, 23°C 1/m Izod Impact, notched, -30°C 700 J/m ASTM D 256 Izod Impact, notched, -40°C 650 J/m ASTM D 256 Instrumented Impact Total Energy, 23°C J ASTM D 3763 70 THERMAL Vicat Softening Temp, Rate B/50 145 °C ASTM D 1525 HDT, 1.82 MPa, 3.2mm, unannealed °C 123 ASTM D 648 CTE, -40°C to 40°C, flow 6.E-05 1/°C ASTM E 831 CTE, -40°C to 40°C, xflow 6.E-05 ASTM E 831 1/°C PHYSICAL Specific Gravity 1.2 ASTM D 792 Mold Shrinkage, flow, 3.2 mm 0.4 - 0.8 SABIC method % Melt Flow Rate, 300°C/1.2 kgf g/10 min ASTM D 1238 15 Water Absorption, 23°C/24hrs 0.15 % SABIC method ELECTRICAL Volume Resistivity >1.E+15 ASTM D 257 Ohm-cm Surface Resistivity >1.E+15 Ohm ASTM D 257 Dielectric Strength, in oil, 0.8 mm ASTM D 149 15 kV/mm Relative Permittivity, 1 MHz ASTM D 150 3 Dissipation Factor, 1 MHz 0.0092 ASTM D 150 FLAME CHARACTERISTICS UL Recognized, 94HB Flame Class Rating 0.75 mm 111 94 Glow Wire Flammability Index 850°C, passes at IEC 60695-2-12 1 mm Glow Wire Flammability Index 960°C, passes at 3 IEC 60695-2-12 mm Glow Wire Ignitability Temperature, 1.0 mm 875 IEC 60695-2-13 °C

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# CHEMISTRY THAT MATTERS

Revision 20180905



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Glow Wire Ignitability Temperature, 3.0 mm	875	°C	IEC 60695-2-13
INJECTION MOLDING			
Drying Temperature	120	°C	
Drying Time	3 – 4	hrs	
Drying Time (Cumulative)	48	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	295 – 315	°C	
Nozzle Temperature	290 – 310	°C	
Front - Zone 3 Temperature	295 – 315	°C	
Middle - Zone 2 Temperature	280 – 305	°C	
Rear - Zone 1 Temperature	270 – 295	°C	
Mold Temperature	70 – 95	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	40 – 70	rpm	
Shot to Cylinder Size	40 - 60	%	
Vent Depth	0.025 - 0.076	mm	

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