

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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