سیابک ےنداہ*ی*

LEXANTM COPOLYMER ML0992

REGION ASIA

DESCRIPTION

LEXAN ML0992 is a translucent impact modified polycarbonate injection molding (IM) grade with release properties. This resin offers good low temperature ductility in combination with medium flow characteristics, excellent surface aesthetics, excellent knit line strength, and excellent processability with opportunities for shorter IM cycle times compared to standard IM PC resins. LEXAN ML0992 resin is a general purpose product available for wide range of opaque colors and may be an excellent candidate for a broad range of applications.

TYPICAL PROPERTY VALUES

PROPERTIES TYPICAL VALUES UNITS TEST METHODS MECHANICAL⁽¹⁾ Tensile Stress, yld, Type I, 50 mm/min 58 MPa ASTM D638 57 ASTM D638 Tensile Stress, brk, Type I, 50 mm/min MPa Tensile Strain, yld, Type I, 50 mm/min 5 % ASTM D638 85 Tensile Strain, brk, Type I, 50 mm/min % ASTM D638 Tensile Modulus, 50 mm/min 2300 MPa ASTM D638 Flexural Stress, yld, 1.3 mm/min, 50 mm span 85 ASTM D790 MPa Flexural Modulus, 1.3 mm/min, 50 mm span 2100 MPa ASTM D790 IMPACT (1) Izod Impact, notched, 23°C 750 J/m ASTM D256 Izod Impact, notched, -30°C 500 J/m ASTM D256 THERMAL (1) HDT, 1.82 MPa, 3.2mm, unannealed 118 °C ASTM D648 Relative Temp Index, Elec (2) 80 °C UL 746B Relative Temp Index, Mech w/impact (2) °C 80 UL 746B Relative Temp Index, Mech w/o impact (2) 80 °C UL 746B PHYSICAL (1) Mold Shrinkage, flow, 3.2 mm (3) 0.4 - 0.8 % SABIC method Mold Shrinkage, xflow, 3.2 mm (3) 0.4 - 0.8 % SABIC method g/10 min Melt Flow Rate, 300°C/1.2 kgf 14 ASTM D1238 g/cm³ ISO 1183 Density 1.2 Moisture Absorption (23°C / 50% RH) 0.1 ISO 62 Melt Volume Rate, MVR at 300°C/1.2 kg 13 cm³/10 min ISO 1133 FLAME CHARACTERISTICS (2) UL Yellow Card Link E207780-103670399 UL Recognized, 94HB Flame Class Rating 0.5 UL 94 mm INJECTION MOLDING (4) 120 °C Drying Temperature Drying Time 3 - 4 Hrs Drying Time (Cumulative) 48 Hrs Maximum Moisture Content 0.02 % °C Melt Temperature 295 - 315

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CHEMISTRY THAT MATTERS

Revision 20231109



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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	

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

(3) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article. The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(4) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

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