

SABIC Innovative Plastics Lexan® ML6018R PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

ML6018R is a low viscosity grade exhibiting a high impact performance over standard PC. It contains an enhanced release-agent. Opaque colours only. This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-ML6018R-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D 792

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	57.0 MPa	8270 psi	Type I, 50 mm/min; ASTM D 638
Tensile Strength, Yield	57.0 MPa	8270 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	103 %	103 %	Type I, 50 mm/min; ASTM D 638
Tensile Modulus	1.58 GPa	229 ksi	50 mm/min; ASTM D 638
Flexural Yield Strength	75.0 MPa	10900 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	1.83 GPa	265 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	4.80 J/cm	8.99 ft-lb/in	ASTM D 256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	5.66 J/cm	10.6 ft-lb/in	ASTM D 256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Impact Test	70.0 J	51.6 ft-lb	Instrumented Impact Total Energy; ASTM D 3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	115 °C	239 °F	unannealed; ASTM D 648
	@Thickness 6.40 mm	@Thickness 0.252 in	

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