

LEXANTM FR RESINS 905AU

REGION ASIA

DESCRIPTION

LEXAN 905AU Polycarbonate (PC) is an injection moldable non-chlorinated and non-brominated, unfilled, transparent flame retardant grade with high flow. It is UV stabilized and has an MVR of 29 (300°C/1.2kg) and a UL94 V0@1.5mm, 5VA at 2.8mm rating and is available in a variety of colors.

INDUSTRY	SUB INDUSTRY
Building and Construction	Construction
Electrical and Electronics	Electrical Devices and Displays, Electrical Components and Infrastructure

TYPICAL PROPERTY VALUES

Revision 20190418

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	64	MPa	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	86	%	ASTM D 638
Tensile Modulus, 5 mm/min	2500	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	83	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	2200	MPa	ASTM D 790
IMPACT			
Izod Impact, notched, 23°C	700	J/m	ASTM D 256
THERMAL			
Vicat Softening Temp, Rate B/50	140	°C	ASTM D 1525
HDT, 1.82 MPa, 3.2mm, unannealed	125	°C	ASTM D 648
CTE, -40°C to 40°C, flow	6.8E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	6.8E-05	1/°C	ASTM E 831
Vicat Softening Temp, Rate B/50	140	°C	ISO 306
PHYSICAL			
Specific Gravity	1.2	-	ASTM D 792
Mold Shrinkage, flow, 3.2 mm	0.5 – 0.7	%	SABIC method
Melt Flow Rate, 300°C/1.2 kgf	27	g/10 min	ASTM D 1238
Density	1.2	g/cm ³	ISO 1183
Water Absorption, (23°C/sat)	0.35	%	ISO 62
Moisture Absorption (23°C / 50% RH)	0.15	%	ISO 62

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