LEXAN™ 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@2.5mm 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 20241218

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	64	MPa	ASTM D638
Tensile Strain, brk, Type I, 50 mm/min	86	%	ASTM D638
Tensile Modulus, 5 mm/min	2500	MPa	ASTM D638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	83	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	2200	MPa	ASTM D790
IMPACT			
Izod Impact, notched, 23°C	700	J/m	ASTM D256
THERMAL			
Vicat Softening Temp, Rate B/50	140	°C	ASTM D1525
HDT, 1.82 MPa, 3.2mm, unannealed	125	°C	ASTM D648
CTE, -40°C to 40°C, flow	6.8E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, xflow	6.8E-05	1/°C	ASTM E831
Vicat Softening Temp, Rate B/50	140	°C	ISO 306
PHYSICAL			
Specific Gravity	1.2	-	ASTM D792
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 D1238
Density	1.2	g/cm³	ISO 1183
Water Absorption, (23°C/saturated)	0.35	%	ISO 62-1
Moisture Absorption (23°C / 50% RH)	0.15	%	ISO 62
FLAME CHARACTERISTICS			
UL Recognized, 94V-0 Flame Class Rating	2.5	mm	UL 94

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