

Product Texts

LEXAN™ BM5225Y Polycarbonate resin is an injection moldable non chlorinated/brominated mineral-filled flame retardant grade. It features high modulus, good flow, ductility and low warpage. It has a UL94 V0@1.5mm and 5VB@1.5mm flame rating and is a good candidate for thin wall applications.

UL Yellow Card Link [F207780-101901446](https://www.ul.com/yellow-card/F207780-101901446)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	12	g/10min	ASTM D 1238
Temperature	260	°C	-
Load	2.16	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	5570	MPa	ISO 527
Yield stress	56	MPa	ISO 527
Yield strain	2.8	%	ISO 527
Stress at break	30	MPa	ISO 527
Strain at break	5	%	ISO 527
Flexural modulus	6150	MPa	ISO 178
Charpy notched impact strength, +23°C	6	kJ/m ²	ISO 179/1eA

ASTM Data			
Tensile Modulus	5850	MPa	ASTM D 638
Tensile Strength at Yield	55	MPa	ASTM D 638
Tensile Strength at Break	34	MPa	ASTM D 638
Elongation at Yield	2.8	%	ASTM D 638
Elongation at Break	5	%	ASTM D 638
Flexural Modulus	6010	MPa	ASTM D 790
Rockwell Hardness	R 109	-	ASTM D 785
Izod Impact notched, 1/8 in	50	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	37	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	87	°C	ISO 75-1/-2
Burning behav. at thickness h	V-1	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
Burning behav. 5V at thickness h	5VB	class	IEC 60695-11-20
Thickness tested	1.5	mm	-
ASTM Data			
DTUL @ 66 psi	93	°C	ASTM D 648
DTUL @ 264 psi	85	°C	ASTM D 648
Vicat Temperature	98	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1400	kg/m ³	ISO 1183
Density	1390	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	90 - 105	°C	-
Pre-drying - Time	4 - 6	h	-
Melt temperature	270 - 300	°C	-
Mold temperature	70 - 90	°C	-
Zone 1	250 - 270	°C	-
Zone 2	260 - 280	°C	-
Zone 3	270 - 290	°C	-

Characteristics

Processing

Injection Molding

Special Characteristics

Flame retardant

Additives

Flame retarding agent

Regional Availability

Asia Pacific