

LEXAN™ 3412HF resin

Polycarbonate

SABIC Innovative Plastics

Message:

20% glass reinforced, high flow PC. UL rated V-1 at 0.059",

General Information			
UL YellowCard	E207780-100069452		
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Features	High liquidity		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.34	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	8.5	g/10 min	ASTM D1238
Molding Shrinkage			Internal method
Flow: 3.20mm	0.20 - 0.40	%	Internal method
Transverse flow: 3.20mm	0.45 - 0.65	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	3450	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield	100	MPa	ASTM D638
Fracture	107	MPa	ASTM D638
Tensile Elongation ³ (Break)	4.0	%	ASTM D638
Flexural Modulus ⁴ (50.0 mm Span)	5520	MPa	ASTM D790
Flexural Strength ⁵			ASTM D790
Yield, 50.0mm span	157	MPa	ASTM D790
Fracture, 50.0mm span	165	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	110	J/m	ASTM D256
Unnotched Izod Impact (23°C)	530	J/m	ASTM D4812
Instrumented Dart Impact (23°C, Total Energy)	3.39	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 3.20mm	142	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	138	°C	ASTM D648
RTI Elec	80.0	°C	UL 746
RTI Imp	80.0	°C	UL 746
RTI	80.0	°C	UL 746
Flammability	Nominal Value	Test Method	
Flame Rating			UL 94

1.50 mm	V-1	UL 94
3.00 mm	V-0	UL 94
NOTE		
1.	5.0 mm/min	
2.	Type 1, 5.0 mm/min	
3.	Type 1, 5.0 mm/min	
4.	1.3 mm/min	
5.	1.3 mm/min	

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Recommended distributors for this material

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