

LEXAN* 3412HF Resin

Polycarbonate

SABIC Innovative Plastics Asia Pacific

Product Description

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

General

Material Status	• Commercial: Active
Availability	• Asia Pacific
Filler / Reinforcement	• Glass Fiber Reinforcement, 20% Filler by Weight
Features	• High Flow
Forms	• Pellets

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			ASTM D955
Flow: 3.20 mm	0.20 to 0.40	%	
Across Flow: 3.20 mm	0.45 to 0.65	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ²	3450	MPa	ASTM D638
Tensile Strength ³			ASTM D638
Yield	100.0	MPa	
Break	107	MPa	
Tensile Elongation ³ (Break)	4.0	%	ASTM D638
Flexural Modulus ⁴ (50.0 mm Span)	5520	MPa	ASTM D790
Flexural Strength ⁴			ASTM D790
Yield, 50.0 mm Span	157	MPa	
Break, 50.0 mm Span	165	MPa	

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	107	J/m	ASTM D256
Unnotched Izod Impact (23°C)	534	J/m	ASTM D4812
Instrumented Dart Impact			ASTM D3763
23°C, Total Energy	3.39	J	

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	142	°C	
1.8 MPa, Unannealed, 3.20 mm	138	°C	

Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL			UL 94
1.50 mm	V-1		
3.00 mm	V-0		

UL 746	Nominal Value	Unit	Test Method
RTI Str	80.0	°C	UL 746
RTI Imp	80.0	°C	UL 746
RTI Elec	80.0	°C	UL 746