



GF 8202 L12

Description GF 8202 L12 is a fiberglass reinforced modified phenolic novolac molding compound, with 12 mm chop length. This compound features superior strength properties.

Available colors Black

Available molding grades Compression, Transfer

Form 12 mm Chopped strand

PHENOLIC

Properties		International Units		English Units		Method	
Physical	Specific Gravity	1.80		1.80		ASTM D792	
	Apparent (Powder) density	0.3	g/cm ³	2.5	lb/gal	ASTM D1895	
	Molding shrinkage	< 0.1	%	< 0.001	in/in	ASTM D955	
	Post shrinkage	< 0.1	%	< 0.001	in/in	ASTM D955	
	Water absorption						
	24 hour	0.05	%	0.05	%	ASTM D570	
	48 hour	0.2	%	0.2	%	ASTM D570	
Thermal	Temperature of deflection under load						
		As Molded	-	°C at 1.8 MPa	-	°F at 264 psi	ASTM D648A
		Post Baked	> 282	°C at 1.8 MPa	> 540	°F at 264 psi	ASTM D648A
	Thermal Conductivity		-	W/mK	-	W/mK	ASTM C518
	UL Temperature Index		-	°C	-	°F	UL 746B
	UL-flammability		-		-		UL 94
	3.2 mm	-		-		UL 94	
	1,6 mm	-		-		UL 94	
Mechanical	Coefficient of linear thermal expansion						
		parallel	-	10 E-6/°C	-	10 E-6/°F	ASTM E831
		perpendicular	-	10 E-6/°C	-	10 E-6/°F	ASTM E831
	Flexural strength		260	MPa	37700	psi	ASTM D790
	Flexural modulus		22	GPa	3.2	Mpsi	ASTM D790
	Tensile strength		120	MPa	17,500	psi	ASTM D638
	Izod impact strength, notched		900	J/m	17	ft lb/in	ASTM D256A
Compressive strength		320	MPa	46,400	Psi	ASTM D695	
Rockwell Hardness							
		M Scale	120		120		ASTM D785
	E Scale	105		105			
Electrical	Dielectric Constant, 1 MHz, wet		-		-	ASTM D150	
	Dissipation Factor, 1 MHz, wet		-		-	ASTM D150	
	Arc Resistance		-	Seconds	-	Seconds	ASTM D495
	Dielectric strength, 60 Hz, dry		12.0	kV/mm	305	V/mil	ASTM D149
		ST	10.0	kV/mm	254	V/mil	ASTM D149
Tracking resistance		-	V	-	V	ASTM D3638 (IEC 112)	

Properties measured on compression molded ASTM specimens. Values are typical, not statistical minimums.

Contact your Sumitomo Bakelite representative for specifications and post baking recommendations.

ST = short time. SS = step-by-step. Wet = immersed in H₂O for 48 hrs. at 50 °C prior to testing.

Certification to ASTM D-5948 requires batch testing. All testing in accordance with ASTM D-5948. ASTM D-5948 supersedes MIL-M-14.

RoHS: GF8202 L12 is in compliance with RoHS2 (2011/65/EU, Restriction of Hazardous Substances).

PFOS: GF8202 L12 does not contain perfluorooctansulfonate (PFOS) according to European Directive 2006/122/EC.

REACH/SVHC : GF8202 L12 does not contain any Substances of Very High Concern (SVHC) as listed on the candidate list published by ECHA..

Revision Date: 7/8/2014. Shelf life 1 year when stored at 70 °F maximum.

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