Technical Data Sheet

POROPHEN® GF 9200 L12

(Preliminary data)[1]

POROPHEN®

Description	POROPHEN® GF 9200 L12 is a long glass fiber reinforced phenolic molding compound with high mechanical strength and excellent thermal properties.
Generic identification	>PF-GF55< (according to ISO 11469: 2000)
Main filler	Glass fiber
Resin	Novolac
Color	Dark grey
Molding method	Compression

	Properties [2]		Typical Value [3]	Unit	Method
Physical	Density		**1.79**	g/cm³	ISO 1183
	Apparent density			g/cm³	ISO 60
	Molding shrinkage		**0.08**	%	ISO 2577
	Post shrinkage		**-0.02**	%	ISO 2577
	Water absorption		**0.4**	%	ISO 62
	Friction coefficient	Static		-	
		Dynamic		-	
Thermal	Temperature of deflection under load			°C @ 1.8 MPa °C @ 8.0 MPa	ISO 75 Af ISO 75 C
	Thermal conductivity			W/m K	ASTM E1461
	Glass transition temperature (Tg)			°C	TMA
	UL-flammability [4]	mm		-	UL 94
		mm		-	UL 94
	Coefficient of linear thermal expansion	Parallel	**10**	10^{-6}/°C	TMA
		Perpendicular	**22**	10^{-6}/°C	TMA
Mechanical	Flexural strength		**356**	MPa	ISO 178
	Flexural modulus		**23**	GPa	ISO 178
	Flexural strain at break		**0.64**	%	ISO 178
	Tensile strength		**160**	MPa	ISO 527-1
	Tensile Young's modulus		**26**	GPa	ISO 527-1
	Tensile strain at break			%	ISO 527-1
	Charpy impact strength	notched	**60**	kJ/m²	ISO 179-1
		unnotched		kJ/m²	ISO 179-1
	Compressive strength		**387**	MPa	ISO 604
Electrical	Surface resistivity			Ohm	ASTM D257
	Volume resistivity			Ohm cm	ASTM D527
	Electric strength			kV/mm	IEC 60243-1
	Comparative tracking index (CTI)		**150**	V	IEC 60112
	Relative Permittivity (23°C)				IEC 60250
	Dielectric dissipation factor (23°C)				IEC 60250

RoHS: *POROPHEN® GF 9200 L12 is in compliance with RoHS2 (2011/65/EU, Restriction of Hazardous Substances).*

WEEE: *Parts produced from POROPHEN® GF 9200 L12 are not subject to 'selective treatment' according to the Directive 2002/96/EC on Waste Electrical and Electronic Equipment.*

PFOS: *POROPHEN® GF 9200 L12 does not contain perfluorooctansulfonate (PFOS) according to European Directive 2006/122/EC.*

REACH/SVHC: *POROPHEN® GF 9200 L12 does not contain any Substances of Very High Concern (SVHC) as listed on the candidate list published by ECHA.*

[1] Subject to change without notice.
[2] Properties measured on compression molded test specimens (MPTS - ISO 3167 - as molded).
[3] The reported values are averages, and are not intended for specification purposes. Contact your Neopreg representative.
[4] UL measurement based on internal measurements, not UL-listed.

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