



KINEL® SK4525 S5A
(Preliminary data)¹

Description	KINEL® SK4525 S5A is a long glass fiber reinforced BMI molding compound with excellent mechanical and thermal properties. Especially suited to be used for injection molding.
Generic identification	
Main filler	Glass fiber
Resin	BMI
Color	Dark grey
Molding method	Injection

	Properties ²	Typical Value ³			Unit	Method	
Physical	Density	1.66			g/cm ³	ISO 1183	
	Apparent density	0.59			g/cm ³	ISO 60	
	Molding shrinkage	0.15			%	ISO 2577	
	Post shrinkage	0			%	ISO 2577	
	Water absorption	0.26			%	ISO 62	
	Friction coefficient	Static	-			-	-
		Dynamic	-			-	-
Thermal	Temperature of deflection under load				°C @ 1.8 MPa	ISO 75 Af	
					°C @ 8.0 MPa	ISO 75 C	
	Thermal conductivity				W/m K	ASTM E1461	
	Glass transition temperature (Tg)	275			°C	TMA	
	UL-flammability ⁴	mm				-	UL 94
		mm				-	UL 94
Mechanical	Coefficient of linear thermal expansion	Parallel	11			10 ⁻⁶ /°C	TMA
		Perpendicular	45			10 ⁻⁶ /°C	TMA
	Flexural strength		23°C	150°C	250°C		
			325	287	135	MPa	ISO 178
		Flexural modulus	26	23	13	GPa	ISO 178
		Flexural strain at break				%	ISO 178
		Tensile strength	130	98	80	MPa	ISO 527-1
		Tensile Young's modulus	28	18	14	GPa	ISO 527-1
		Tensile strain at break	0.6	0.6	0.7	%	ISO 527-1
		Charpy impact strength	notched	52			kJ/m ²
unnotched				kJ/m ²	ISO 179-1		
Compressive strength	306	219	127	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)	275			V	IEC 60112	
	Relative Permittivity (23°C)				100Hz -1MHz	IEC 60250	
	Dielectric dissipation factor (23°C)				100Hz -1MHz	IEC 60250	

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RoHS: KINEL® SK4525 S5A is in compliance with RoHS (2002/95/EC, Restriction of Hazardous Substances).

WEEE: Parts produced from KINEL® SK4525 S5A are not subject to 'selective treatment' according to the Directive 2002/96/EC on Waste Electrical and Electronic Equipment.

PFOS: KINEL® SK4525 S5A does not contain perfluorooctansulfonate (PFOS) according to European Directive 2006/122/EC.

¹ Subject to change without notice.

² Properties measured on compression molded test specimens (MPTS - ISO 3167 - post-cured 16 hours @ 225°C).

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.