

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.
Generic identification	
Main filler	Glass fiber
Resin	BMI
Color	Dark grey
Molding method	compression, transfer

KINEL®

	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	0.00	%	ISO 2577			
	Water absorption	0.26	%	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)	275	°C	TMA			
	UL-flammability ⁴	mm mm	- -	UL 94 UL 94			
	Coefficient of linear thermal expansion	Parallel	11	10 ⁻⁶ /°C	TMA		
		Perpendicular	45	10 ⁻⁶ /°C	TMA		
Mechanical	Flexural strength	23°C	325	MPa	ISO 178		
		150°C	287	MPa	ISO 178		
		250°C	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	ISO 179-1
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)					IEC 60250	
	Dielectric dissipation factor (23°C)					IEC 60250	

RoHS: KINEL® SK4525 S5A is in compliance with RoHS2 (2011/65/EU, 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.

REACH/SVHC: KINEL® SK4525 S5A 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 - 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.