

Date: April, 2024

Material Change of Plastic Screw SPEG-C

Dear Valued Customer,

We hope you are doing well and appreciate your constant business support of NBK. Toward ongoing green procurement, the material of our Plastic Screws (PEEK GF30 / Hex Socket Head Cap Screws) SPEG-C is to be changed.

[Applicable Products]

- Plastic Screws (PEEK GF30 / Hex Socket Head Cap Screws) SPEG-C Series

[Change Effective Period]

The changes will take place for orders shipped on June 3, 2024 (Monday) and thereafter. Note that we do not offer returns/exchanges as a result of this change.

[Details of Change]

In accordance with the material change, some physical property values will change likewise. In addition, the change will not affect the PEEK GF30 main body material (PEEK Containing Glass Fiber/Light Brown/Glass Fiber 30%).

■ Physical Property Values

Property	Test Method	Measurement Conditions	Unit	Before Change	After Change
Tensile Strength	ISO 527	23°C 50% Rh	N/mm ²	168	165
Tensile Elongation	ISO 527	23°C 50% Rh	%	2.1	2.0
Tensile Modulus	ISO 527	23°C 50% Rh	N/mm ²	11	11
Bending Strength	ISO 527	23°C 50% Rh	N/mm ²	259	250
Flexural Modulus	ISO 527	23°C 50% Rh	GPa	11.5	12.2
Charpy Impact Strength (with Notch)	ISO 179/1Ea	23°C 50% Rh	kJ/m ²	8C	9C
Flammability UL94 (1.6mm)	IEC 60695	—	—	V-0	V-0
Heat Distortion Temperature (1.8N/mm ²)	ISO 75	Dry	°C	327	323
Dielectric Constant (1MHz)	IEC 60250	—	—	3.8	3.3
Dielectric Loss Tangent (1MHz)	IEC 60250	—	—	0.007	0.004
Volume Resistivity	IEC 60093	—	Ω·m	10 ¹³	10 ¹³
Density	ISO 1183	—	g/cm ³	1.52	1.5
Water Absorption*1	ISO62	Before Change 23°C in water x 24h After Change 23°C in water x saturation	%	0.05	0.4
Glass Fiber Content	-	—	%	30	30

*Values in chart are for reference only. They are not guaranteed values.

*1: Test times differ before and after the change; the pre-change value is for 24 hours' immersion and the post-change value for saturation.



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Please do not hesitate to contact us if you have any questions.

Sincerely yours,

A handwritten signature in black ink that reads "M. Sugiyama".

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