



GFM-5055-25

Dimensions

b1	25 mm
b2	2 mm
Bevel angle (f1)	30 °
Ø d3 (Flange)	63 mm
Bevel angle (f4)	0 °
Ø d2	55 mm
Shaft diameter	50 mm
Length of bevel (f1)	1.2 mm
Length of bevel (f4)	0 mm

Manufacturing and installation tolerances

Tolerance of shaft	h9
b1 tolerance	h13
Tolerance d2 Housing bore max.	0.03 mm
Tolerance d2 Housing bore min.	0 mm
Shaft dimensions (max.)	50 mm
d1 after press-fit (max.)	50.15 mm
d1 after press-fit (min.)	50.05 mm
Shaft dimensions (min.)	49.938 mm

General properties

	Coefficient of friction, dynamic, against steel	0,08 - 0,15 μ
	pv value, max. (dry)	0.42 MPa · m/s
	CO2 equivalent per piece	0.2951 kg
	Radioactive radiation max.	$3 \cdot 10^2$ Gy

Mechanical properties

	Maximum surface speed, rotating, short-term	2 m/s
	Max. recommended surface pressure	80 MPa
	Compressive strength	78 MPa
	Maximum surface speed, linear, continuous	4 m/s
	Maximum surface speed, oscillating, continuous	0.7 m/s
	Maximum surface speed, oscillating, short-term	1.4 m/s
	Maximum surface speed, rotating, continuous	1 m/s
	Maximum surface speed, linear, short-term	5 m/s

Requirements

	RoHS 2 compliant according to EU guideline 2011/65/EU	yes
	Mould-resistant according to DIN EN ISO 846 Procedure A	yes

Electricity attributes

Specific transitional resistance	$> 10^{13} \Omega\text{cm}$, test method DIN IEC 93
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Surface resistance	$> 10^{11} \Omega$, test method DIN 53482
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Thermal properties

Max. short-term application temperature	220 °C
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Heat conductivity	0.24 W/m · K, Prüfmethode ASTM C 177
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Thermal expansion coefficient (at 23°C/73°F)	$9 \text{ K}^{-1} \cdot 10^{-5}$ DIN53752
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Max. long-term application temperature	130 °C
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Lower application temperature	-40 °C
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