



PA6 E FG 1000x500x40 mm natur

Artikelnr P1001307

Material PA

Tekniska egenskaper

Density & Weight

Egenskap	Värde	Enhet	Provningsstandard
Density	1.14	g/cm³	ISO 1183
Density	1.13	g/cm³	ISO 1183

Tensile Properties

Egenskap	Värde	Enhet	Provningsstandard
Tensile Strength	70	MPa	DIN EN ISO 527
Tensile Strength	83	MPa	ISO 527
Modulus of elasticity (tensile)	3250	MPa	ISO 527-2
Modulus of elasticity (tensile)	3330	MPa	ISO 527
Breakdown Voltage	75	MPa	ISO 527-2
Breakdown Voltage	54	MPa	ISO 527
Break Elongation	40	%	ISO 527-2
Break Elongation	50	%	ISO 527

Temperature Limits

Egenskap	Värde	Enhet	Provningsstandard
Melting point	220	°C	ISO 3146
Melting point	220	°C	ISO 3146
Maximal operating temperature (short-term)	160	°C	
Maximal operating temperature (short-term)	130	°C	UL746B

Egenskap	Värde	Enhet	Provningsstandard
Maximum Operating Temperature	90.5	°C	ISO 75-2
Maximum Operating Temperature	85	°C	
Minimum temperature	-36	°C	
Minimum temperature	-40	°C	
Heat deflection temperature (HDT/A)	70	°C	
Heat deflection temperature (HDT/A)	75	°C	
Heat deflection temperature (HDT/B)	140	°C	
Heat deflection temperature (HDT/B)	190	°C	ISO 75-2
Vicat softening temperature (VST/B/50)	190	°C	ISO 306

Insulation Properties

Egenskap	Värde	Enhet	Provningsstandard
Dielectric Strength	30	kV/mm	IEC 60243-1
Dielectric Strength	25	kV/mm	IEC 60243-1
Volume Resistivity	10 ¹³	Ω·cm	IEC 60093
Volume Resistivity	10 ¹²	Ω·cm	IEC 60093
Dielectric Constant (1 MHz)	3.8	-	IEC 60250
Dielectric Constant (1 MHz)	3.7	-	IEC 60250
Dielectric loss factor (1 MHz)	0.03	-	IEC 60250
Dielectric Constant (100 Hz)	3.9	-	IEC 60250
Dielectric loss factor (1 MHz)	0.0	-	IEC 60250
Dielectric loss factor (100 Hz)	0.0	-	IEC 60250

Fire Classification

Egenskap	Värde	Enhet	Provningsstandard
Flammability Classification (UL 94)	3		UL 94

Flexural Properties

Egenskap	Värde	Enhet	Provningsstandard
Flexural Strength	76	MPa	ISO 527-2
Flexural Strength	100	MPa	ISO 178

Thermal Conductivity

Egenskap	Värde	Enhet	Provningsstandard
Thermal Conductivity	0.32	W/(m·K)	DIN 52612

Egenskap	Värde	Enhet	Provningsstandard
Thermal Conductivity	0.28	W/(m·K)	DIN 52612

Static spread

Egenskap	Värde	Enhet	Provningsstandard
Surface Resistivity	10 ¹³	Ω	IEC 60093
Comparative Tracking Index (CTI)	600	V	IEC 60112
Surface Resistivity	10 ¹³	Ω	IEC 60093
Comparative Tracking Index (CTI)	600	V	IEC 60112

Moisture Absorption

Egenskap	Värde	Enhet	Provningsstandard
Water absorption to saturation	2.5	%	ISO 62
Water absorption to saturation	9.5	%	ISO 62
Water Absorption to Saturation	9	%	ISO 62
Water Absorption to Saturation	9.5	%	ISO 62

Impact Resistance

Egenskap	Värde	Enhet	Provningsstandard
Notched impact strength (Charpy)	5.5	kJ/m²	ISO 179/1eA
Notched impact strength (Charpy)	7	kJ/m²	ISO 179

Thermal Expansion

Egenskap	Värde	Enhet	Provningsstandard
Thermal Expansion Coefficient	1.1	10 ⁻⁴ /K	ISO 11359
Thermal Expansion Coefficient	0.9	10 ⁻⁴ /K	ISO 11359

Hardness

Egenskap	Värde	Enhet	Provningsstandard
Hardness Shore D	82	° Shore D	DIN EN ISO 868
Hardness Shore D	80	° Shore D	ISO 868
Ball pressure hardness	150	MPa	ISO 2039-1
Ball pressure hardness	155	MPa	ISO 2039

Godkännanden

- EU 10/2011
- FDA
- REACH
- RoHS

