

ROLEC Gehäuse-Systeme GmbH

Polypropylene (PP)

Mechanical properties

Stress at yield	ISO 527	29	MPa
Elongation at break	ISO 527	>50	%
Tensile modulus	ISO 527	1550	MPa
Ball pressure hardness	ISO 2039-1	62	MPa
Standard for ball pressure hardness		H132/30	
Hardness Shore (A/D) or Rockwell (R/L/M)	ISO 868, ISO 2039-2	D68	-
Charpy notched impact strength at 23 °C	ISO 179/1eA	4,0	KJ/m ²

Electrical properties

Dielectric constant at 50 Hz	IEC 60250	2,3	-
Dielectric constant at 1 MHz	IEC 60250	2,3	-
Dissipation factor at 50 Hz	IEC 60250	8,1	1E-4
Dissipation factor at 1 MHz	IEC 60250	20	1E-4
Thickness for electric strength		1,0	mm
Volume resistivity	IEC 60093	>10 ¹¹	Ohm · m
Surface resistivity	IEC 60093	10 ¹⁰	Ohm
Comparative tracking index	IEC 60112	600	-

Thermal properties

Thermal conductance	DIN 52 612	0,22	W/K m
Linear thermal expansion along cross to direction of flow	ISO 11359	100-200	10 ⁻⁶ /K
Melting point or glass transition temp.	ISO 11357	163	°C
Heat distortion temperature A	ISO 75 HDT/A (1.8 MPa)	55	°C
Heat distortion temperature B	ISO 75 HDT/B (0,45 MPa)	98	°C
Short time use temperature		120	°C

Other properties

Humidity absorption at 23 °C/50%	ISO 62	<0,1	%
Water absorption	ISO 62	<0,1	%