

properties: good mechanical properties, good sliding properties, good damping behaviour, dimensionally stable, scratch-resistant and cut-resistant, lye and acid resistant, physiologically harmless, no water absorption

colour: natural

physical properties

properties	test methods	units	results
molecular weight (average molecular weight)	-	g/mol	> 0,5*10 ⁶
density	ISO 1183	g/cm ³	0,95
water absorption	ISO 62	%	< 0,01
flame classification	UL94	-	HB

mechanical properties

yield stress	ISO 527	N/mm ²	26
elongation at yield	ISO 527	%	9
modulus of elasticity	ISO 527	MPa	1000
impact strength (Charpy)	ISO 179	kJ/m ²	Without breakage
notched impact strength (Charpy)	ISO 11542-2	kJ/m ²	≥ 25
ball indentation hardness	ISO 2039-1	N/mm ²	52
shore D hardness of 15-s value	ISO 868	-	60 - 65
dynamic coefficient of friction	-	-	0,2
wear (Sand-Slurry)	ISO 15527	%	350

thermal properties

melting range DSC, 10K/min.	ISO 3146	°C	130 - 135
coefficient of thermal expansion between 23 ° C and 60 ° C	ISO 11359	K ⁻¹	ca. 2*10 ⁻⁴
thermal conductivity	ISO 52612	$\frac{W}{m * K}$	0,41
usage temperature (max.)	-	°C	80
usage temperature short term	-	°C	90
usage temperature (min.)	-	°C	- 100

electrical properties

surface resistivity	IEC 60093	Ohm	> 10 ¹²
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Conformances according to: EU-plastics directive 10/2011/EG
 FDA-directive 21CFR177.1520
 FDA-directive 21CFR178.3297

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Notes for the user: The values given in this data sheet are based on a sheet with a 40mm thickness. Depending on the thickness the technical values may vary during processing.
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