

Characteristics and standard values	OK 500 (PE-HMW)					OK 500 Reg.			
	natural	coloured ¹⁾²⁾	Black UV-stabilized	black-antistatic (AST)	black-extra-conductiv	Reg. coloured ¹⁾		Reg. black multi-col.	Reg. coarse multi-col.
Colour number	---	---	91	92 / 931	94	---		---	---
Mechanical Properties									
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Density ISO 1183-1 ISO 1183-1 (05/2004)	g/cm ³	≥ 0,95	≥ 0,96	≥ 0,96	≥ 0,97	≥ 0,98	≥ 0,96	≥ 0,96	≥ 0,96
Notched Impact strength (Charpy) ISO 11542-2 (01/1999)	kJ/m ²	≥ 20	≥ 15	≥ 10	≥ 10	≥ 8	≥ 10	≥ 10	≥ 10
Abrasion – Test method acc. to ISO 15527 (Oct. 2007) (Slurry-Test rel. to OK 1000 = 100 %)	%	400 ± 40	400 ± 40	400 - 450	400 - 450	400 - 450	350 - 450	350 - 450	350 - 450
Tensile strength ISO 527-2 / 1B / 50 mm/min. (07/1996)	N/mm ²	≥ 26	≥ 20	≥ 20	≥ 20	≥ 20	≥ 17	≥ 17	≥ 17
Break elongation ISO 527-2 / 1B / 50 mm/min. (07/1996)	%	> 50	> 50	> 50	> 50	> 50	> 50	> 50	> 50
Creep properties under varying compressive stress Creep < 10 % in 7 days – (20°C)	N/mm ²	10	10	10	10	10	10	10	10
Dynamic value of friction ASTM D 1894 (06/2006) PE-Metal Pm = 2 N/mm ² v = 10m/min	μ	~ 0,2	~ 0,2	~ 0,2	~ 0,2	~ 0,2	~ 0,2	~ 0,2	~ 0,2
Shore D, 3-s-value 6mm plate ISO 868 (10/2003)	D	65	65	65	65	65	65-67	63-66	63-66
Water absorbtion ISO 62 (05/2008)	%	< 0,1	< 0,1	< 0,1	< 0,1	< 0,1	< 0,1	< 0,1	< 0,1
Thermal Properties									
Melt temperature DSC ISO 11357-1 (03/2010)	°C	133-136							
Permanente operation temperature, max. (Literature)	°C	80							
Coefficient of linear expansion DIN 53752 (Literature)	23 - 80 °C	≈ 2*10 ⁻⁴ /K							
TÜV approved - Atex-Directive (TÜV-No.: 09204555068)		No	No	No	931=Yes	No	No	No	No
Electrical Properties									
Volume resistivity IEC 60093 / VDE 0303 Part 30	Ω*cm	>10 ¹⁴	>10 ¹⁴	≤10 ⁹	≤10 ⁵	≤10 ⁴	>10 ¹⁴	<10 ¹²	<10 ¹⁴
Surface resistivity IEC 60093 / VDE 0303 Part 30	Ω	>10 ¹³	>10 ¹³	≤10 ⁹	≤10 ⁵	≤10 ⁴	>10 ¹³	<10 ¹¹	<10 ¹³
Physiological Properties									
Food approvals ²⁾		EU / FDA	EU	EU	92 = --- 931=FDA/EU	---	---	---	---

The above data are based on the present knowledge and are given without guarantee. Existing laws and conditions are to be respected by the user of our products. The decision about the suitability of a material for a certain application must be made by the user. We reserve the right to alter the indicated data. The indicated values are for a 15 mm thick sheet. Black sheets may have antistatic properties.

¹⁾Different, depending on the colour.

²⁾Further compositions or approvals on request!

Current data sheet version: On request!