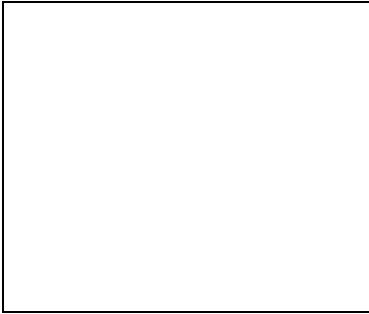


AMARGO



PE 500

HMWPE (PE 500) – high molecular mass polyethylene

	RESEARCH METHOD	UNIT	VALUE
Density	ISO 1183	g/cm ³	0,950
Molecular weight	Calculated on the equation of Margules	10 ⁶ g/mol	> 0,5
Tensile strength	ISO 527-1	N/mm ²	28
Tensile strength at break	ISO 527-1	N/mm ²	36
Elongation at break	ISO 527-1	%	> 50
Modulus of Elasticity	ISO 527-1	N/mm ²	1200
Impact strength (Charpy)	ISO 179	mJ/mm ²	Without breakage
Notched impact strength (Charpy)	ISO 179	mJ/mm ²	-
Notched impact strength 15 ° triangular	ISO 179	mJ/mm ²	> 20

Ball indentation hardness 30 sec	ISO 2039	-	46
Shore D Hardness	ISO 868	-	64

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	METODA BADAWCZA	JEDNOSTKA	WARTOŚĆ
Abrasion resistance	SAND-SLURRY	-	200-350
Melting range of crystal grain	DIN 53736	°C	130-135
Thermal conductivity	DIN 52612	W/m*K	0,4
Coefficient of linear expansion	DIN 53752	K ⁻¹	1,5-2*10 ⁻⁴
Vicat softening temperature VSP/a/50	ISO 306	°C	130
Vicat softening temperature VSP/b/50	ISO 306	°C	78
Volume resistivity	DIN VDE 0303	Q*cm	> 10 ¹⁴

Surface resistance	DIN VDE 0303	ρ	$> 10^{15}$
Dielectric strength	DIN VDE 0303	kV/mm	50
Dielectric loss factor 106 Hz	IEC 250	-	$< 2 \cdot 10^{-4}$
Dynamic coefficient of friction	-	-	0,09-0,17

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