Ottensteiner Kunststoff GmbH & Co. KG **OKULEN**®



	utout from the s V-PE (ultra-high			-		
TG 1	OK 2000, UHMW-PE, for applications in which maximum wear / abrasion resistance is essential, e.g. centrifugal pumps for flue gas desulphurization units, suction box covers / foils in paper machines, linings etc					
	Products can be interchanged between the TG1 and TG2 based upon the					
	specific toughness and/or wear-requirements of the application.					
TG 2	<u>OK 1000</u> , UHMW-PE, with extremely high toughness level and very good wear resistance for applications/products in mechanical and plant engineering, in storage systems and materials handling, e.g. profiles for chain and belt drives, curved guiding mechanims, chain deflecting and tensioning devices, profiles for chain racks, slide rails for conveying systems, and bunker and silo linings.					
	Other fields of application are in refrigeration technology (sales, sleevs, piston rings to withstand temperatures down -269°C), in extraction units (dynamic seals), in fittings (slide valves, butterfly valves) in electroplating (drums, bearings) etc.					
 TG 3 OK 500, HMW-PE, for products such as cutting underlays in the food/catering industry, in which the sheet grades must meet the cutting resistance and hygiene requirements, barries for ice rinks etc TG 4 PE 300, HD-PE, for applications in plant engineering and tank construction, for shaft floors in sewage systems etc., in which advantage is taken of the large sheet sizes and thicknesses, the all-round chemical resistance and the good weldability 						
<u>Physical properties</u> Raw material			UHMW-PE		HMW-PE	HD-PE
Sheet group (TG)			1	2	3	4
Density		[g/cm³]		-0,942	0,950-0,957	- 0,942-0,955
Abrasion (Sand-Slurry-Test)		[-]	80	100	400	≥ 600
Tensile stress at yield		[N/mm²]	≥ 17	≥ 17	≥ 20	≥ 19
Elongation at yield		[%]	≥8	≥8	≥8	≥ 8
Modulus of elastics		[N/mm²]	≥ 700	≥ 700	≥ 800	≥ 700
Notched Impact Strentgh ***		[kJ/m²]	≥ 80	≥ 170	≥ 15	≥ 5
	-notched-impact-strength					
	Existing laws	and condition	s are to be respected		^{roducts.} d finished pro	oducts
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