

PE-SIL - ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE

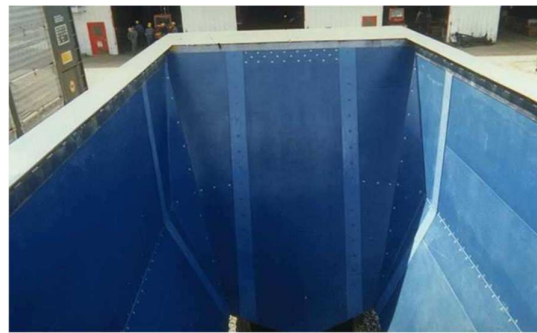
blue, 61 Shore (D) – low friction material

PE-SIL UV-stabilized UHMW-PE shapes offer the lowest coefficient of friction of all UHMW-PE grades. Additionally, this premium, lubricant filled lining material offers low moisture absorption and excellent chemical resistance. PE-SIL UHMW-PE components can be fabricated and welded for any application that requires a seamless drop-in liner, a framed-in liner, or a replacement liner.

Furthermore, PE-SIL UHMW-PE liners are available in kit and can be self-installed or professionally installed through our extensive network of global System PE-SIL Engineering Partners.

ADVANTAGES:

- Excellent sliding
- Low friction coefficient
- Good impact strength
- High wear resistance
- Adhesion of sticky bulk material are largely avoided
- Reduction of operating costs
- Easy replacement



TYPICAL AREA OF APPLICATION

PE-SIL is considered the material of choice for lining storage and transport containers, truck boxes, hoppers, chutes, tubes, bunkers, conveyors, vibratory pans, and stand pipes.

PROPERTIES

PE-SIL is an ultrahigh molecular polyethylene (UHMW-PE-Polymer), that owned a low friction coefficient because of adding special silicone additives. It is an excellent lining material that was perfected for optimum solutions of material flow disturbances.

	Value	Unit	Standard
Colour	blue		
Polymer basis	UHMW-PE		
Density	>0,93	g/cm ³	ISO1183-1
Hardness	61 ± 5	Shore (D)	ISO868
Water absorption	<0,1	%	ISO62
Tensile strenght	19	MPa	ISO527-1/-2
Tear strength ISO 34C	30	kN/m	ISO34
Elongation at break	>50	%	ISO527-1/-2
Charpy impact strength	115	kJ/m ²	ISO 21304-2
Melting temperature	135	°C	ISO11357-1/-3

PE-SIL - standard plates:

Part-No.:	Description	Dimension (TxWxL) in mm	Weight kg/pce
03210117130	PE-SIL 10	10x1230x3050 mm	35,9
03210117137	PE_SIL 12	12x1230x3050 mm	43,1
03210117138	PE_SIL 15	15x1230x3050 mm	53,7
03210117140	PE_SIL 20	20x1230x3050 mm	70,0

Other dimensions, cut-to-size, as drop-in-liner on request. Other qualities on request.