

Technical specification

Polyethylene HD 300 - 1000

Description

Excellent impact strength. Low water absorption. Good electrical properties. Mechanical and electrical properties are maintained even in water. Suitable applications include food processing, pipes and plumbing.

Properties	Unit	Value	Test method
Density		0.95	
Tensile strength	Mpa	22	
Elongation at break	%	450	
E-module	Mpa	800	
Impact strength			
Unscored		-	
Scored		-	
Hardness	n/mm ²	38	
Moisture absorption at 23 °C and 50% r.h.	%	0	
Temperature use in air			
Max. Continuous	°C	80	
Min. Continuous	°C	-260	
Linear thermal expansion, koeff	10 ⁻⁶ m/m °C	180	
Volume resistivity	Ohm cm	10 ¹⁵	
Surface resistivity	Ohm cm	10 ¹³	
Dielectric strength	kV/mm	90	
Dynamic coefficient of friction, unaneled		0.10-0.12	
Dynamic coefficient of friction, anointed		0.05-0.12	
Pv-value, v = 0,1 m/s	N/mm ² xm/s	0.08	
Pv-value, v = 1 m/s	N/mm ² xm/s	0.06	
Pv-value, kont, anointed	N/mm ² xm/s	-0.14	
Permissible bearing pressure at normal elevations (not built) a / static for a long time			
a / static for a long time			
Allowed def. e = 2%	n/mm ²	6	
Allowed def. e = 5%	n/mm ²	8.5	
b/static for a long time			
Allowed def. e = 2%	n/mm ²	1	

This specification is given by our best knowledge and might be submitted to changes.