

LubX® S pressed

Ultra High Molecular Weight Polyethylene

Röchling Engineering Plastics SE & Co. KG

Message:

Product characteristics

Energy saving

Especially aligned to the sliding partner PET

Suitable for contact with foodstuffs (FDA/21CFR 177.1520)

Typical field of application

Materials-handling technology

Automation

General Information			
Features	Low friction coefficient		
	Compliance of Food Exposure		
	Non-toxic		
Uses	Conveyor		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.930	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	< 0.010	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	650	MPa	ISO 527-2/1B/1
Tensile Stress (Yield)	20.0	MPa	ISO 527-2/1B/50
Tensile Strain			
Yield	14	%	ISO 527-2/1B/50
Fracture	> 50	%	ISO 527-2
Wear Resistance - Sand-slurry method	90.0		
Material Designation	UHMW-PE-QCD 35-3-4		ISO 1872
Use-Sliding properties: partner PET	0.100		Internal method
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	No Break		ISO 179
Charpy Unnotched Impact Strength			ISO 179
-- ¹	100	kJ/m ²	ISO 179
--	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature ²	< 130	°C	

Melting Temperature ³	133 - 135	°C	DSC
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+14	ohms	DIN VDE 0303
Volume Resistivity	> 1.0E+15	ohms·cm	DIN VDE 0303
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
3.00 mm	HB		UL 94
6.00 mm	HB		UL 94
Additional Information	Nominal Value		Test Method
Service Temperature (Long Term): -150 to 80°C			
NOTE			
1.	15° Notch		
2.	Short Term		
3.	Crystalline grain		

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