LubX® C pressed

Ultra High Molecular Weight Polyethylene

Röchling Engineering Plastics SE & Co. KG

Message:

Product characteristics
Energy saving
Especially aligned to POM and Steel
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/cm³	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			Internal method
Sliding properties: partner POM	0.0800		Internal method
Sliding properties: partner steel	0.110		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/m²	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		

Recommended distributors for this material

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