

Plaslube® Ultrawear 5902WT

Ultra High Molecular Weight Polyethylene

Techmer Engineered Solutions

Message:

Plaslube® Ultrawear 5902WT is an Ultra High Molecular Weight Polyethylene product. It can be processed by injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary characteristic: rohs compliant.

General Information			
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.938	g/cm ³	ASTM D792
Molding Shrinkage - Flow	2.5	%	ASTM D955
Water Absorption (24 hr)	0.010	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	20.7	MPa	ASTM D638
Tensile Elongation (Yield)	200	%	ASTM D638
Flexural Modulus	1030	MPa	ASTM D790
Flexural Strength (Yield)	20.7	MPa	ASTM D790
Coefficient of Friction (vs. Steel - Static)	0.18		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	270	J/m	ASTM D256
Tensile Impact Strength	210	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	104	°C	
1.8 MPa, Unannealed	48.9	°C	
Injection	Nominal Value	Unit	
Rear Temperature	282 to 299	°C	
Middle Temperature	277 to 299	°C	
Front Temperature	271 to 293	°C	
Nozzle Temperature	293	°C	
Processing (Melt) Temp	277 to 293	°C	
Mold Temperature	23.9 to 65.6	°C	
Back Pressure	0.00 to 0.689	MPa	

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

