

Plaslube® Ultrawear 5902WT

Techmer Polymer Modifiers - *Ultra High Molecular Weight Polyethylene*

General Information

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.940		ASTM D792
Molding Shrinkage - Flow	0.025	in/in	ASTM D955
Water Absorption (24 hr)	0.010	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	3000	psi	ASTM D638
Tensile Elongation (Yield)	200	%	ASTM D638
Flexural Modulus	150000	psi	ASTM D790
Flexural Strength (Yield)	3000	psi	ASTM D790
Coefficient of Friction (vs. Steel - Static)	0.18		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	5.0	ft·lb/in	ASTM D256
Tensile Impact Strength	100	ft·lb/in ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	220	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	120	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	540 to 570	°F
Middle Temperature	530 to 570	°F
Front Temperature	520 to 560	°F
Nozzle Temperature	560	°F
Processing (Melt) Temp	530 to 560	°F
Mold Temperature	75 to 150	°F
Back Pressure	0.00 to 100	psi

