Veradel® 3300 SL30
polyethersulfone

Veradel® 3300 SL30 is a polyethersulfone (PESU) compound designed to provide a balance of excellent mechanical properties, wear resistance and low coefficient of friction in both dry and externally lubricated applications. The resin is formulated with a ternary anti-friction/anti-wear additive system comprised of carbon fiber, graphite, and polytetrafluoroethylene (PTFE).

Veradel® PESU is produced to the highest industry standards and is characterized by a distinct combination of properties, which include excellent wear resistance, ease of melt processing, high purity, and excellent chemical resistance.

These properties make it well-suited for applications in transportation, electronics, chemical processing, and industrial uses. The resin is black in color in its natural state.

General		
Material Status	• Commercial: Active	
Availability	• Africa & Middle East • Asia Pacific • Europe	• Latin America • North America
Additive	• Carbon Fiber + Graphite + PTFE Lubricant	
Features	• Chemical Resistant • Good Dimensional Stability • High Heat Resistance	• Low Friction • Medium Flow • Wear Resistant
Uses	• Automotive Applications • Bearings • Bushings • Gears	• Industrial Applications • Profiles • Rods • Sheet
RoHS Compliance	• Contact Manufacturer	
Appearance	• Black	
Forms	• Pellets	
Processing Method	• Injection Molding • Machining	• Profile Extrusion

Physical	Typical Value	Unit	Test method
Density / Specific Gravity	1.53		ISO 1183
Melt Mass-Flow Rate (MFR) (380°C/2.16 kg)	9.0	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	0.17	%	
Across Flow	0.50	%	
Water Absorption (24 hr)	0.31	%	ASTM D570

Mechanical	Typical Value	Unit	Test method
Tensile Modulus	12000	MPa	ISO 527-1/1A/1
Tensile Stress (Yield)	130	MPa	ISO 527-2/1A/5
Tensile Elongation (Break)	1.6	%	ISO 527
Flexural Modulus	12000	MPa	ISO 178
Flexural Stress	200	MPa	ISO 178
Compressive Modulus	12200	MPa	ISO 604
Compressive Stress	165	MPa	ISO 604
Shear Strength	62.1	MPa	ASTM D732

Impact	Typical Value	Unit	Test method
Charpy Notched Impact Strength	7.0	kJ/m²	ISO 179
Notched Izod Impact Strength	8.0	kJ/m²	ISO 180

Hardness	Typical Value	Unit	Test method
Rockwell Hardness			ISO 2039-2
M-Scale	76		
R-Scale	115		

Thermal	Typical Value	Unit	Test method
Glass Transition Temperature	220	°C	ASTM D3418
CLTE - Flow (0 to 180°C)	1.0E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.25	W/m/K	ASTM E1530
Heat Capacity			DSC
50°C	840	J/kg/°C	
200°C	1160	J/kg/°C	

Electrical	Typical Value	Unit	Test method
Surface Resistivity	2.0E+4	ohms	ASTM D257
Volume Resistivity	6.2E+4	ohms·cm	ASTM D257

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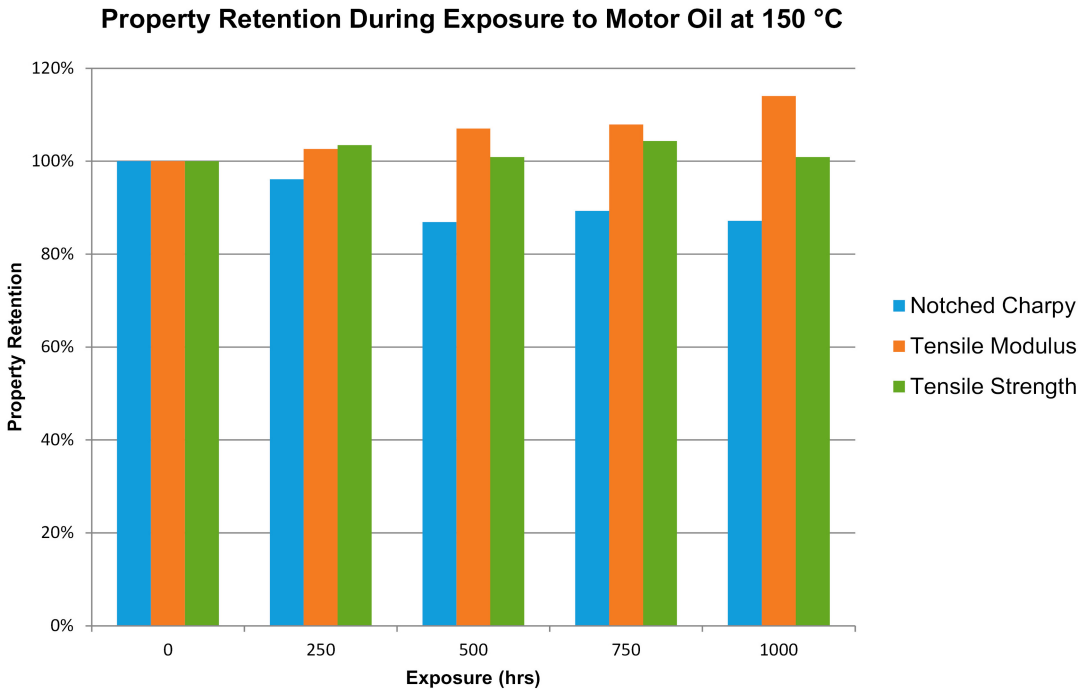
Additional Information



Injection	Typical Value	Unit
Drying Temperature	177	°C
Drying Time	2.5	hr
Processing (Melt) Temp	340 to 385	°C
Mold Temperature	130 to 170	°C
Injection Rate	Fast	

Notes

Typical properties: these are not to be construed as specifications.

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