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 527-2/1A/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

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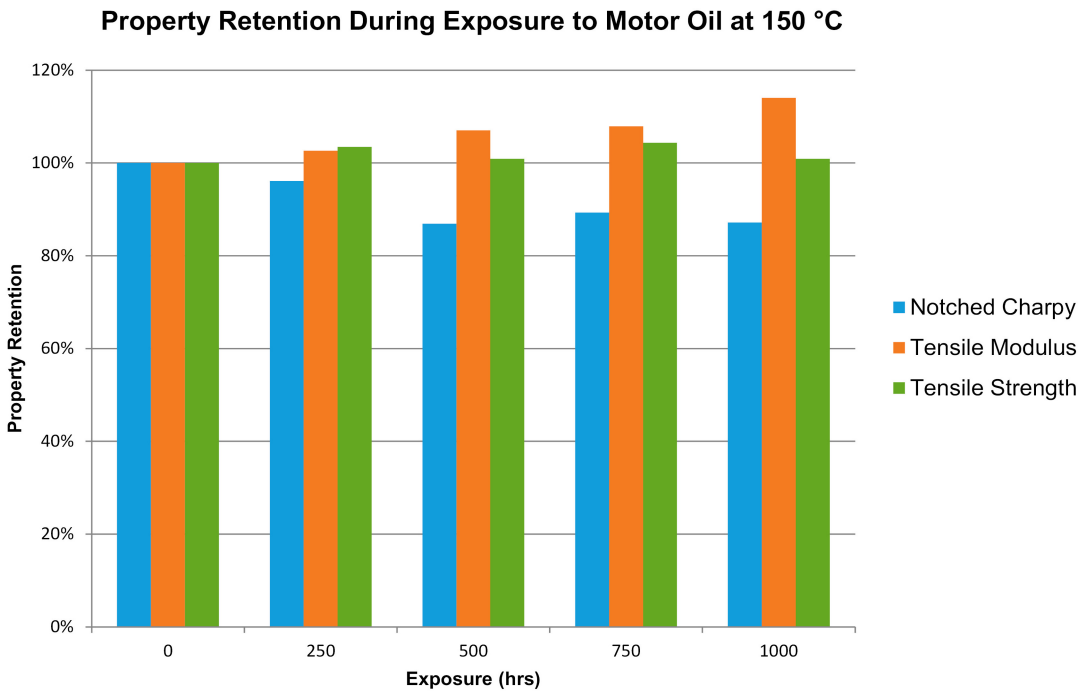
Mechanical	Typical Value	Unit	Test method
Compressive Stress	165	MPa	ISO 604
Shear Strength	62.1	MPa	ASTM D732

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	

Additional Information



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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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