

## Renewably-Sourced Premium Process Oils



PureNova process oils are exclusively produced from sustainable plant feedstocks, which are converted to highly specified paraffin molecules using a proprietary platform technology. Decoupled from crude petroleum, PureNova process oils are pure saturated compounds, containing no sulfur, PAHs or polar species found in conventional oils. Designed to perfectly straddle the balance between performance and sustainability, PureNova performs in the most strenuous applications where oxidative stability, best in class volatility and color are critical to success, whilst simultaneously improving key environmental metrics like biodegradability, toxicity, and renewability. As a new to the world sustainable hydrocarbon process oil, PureNova is positioned to be the premiere petro-alternative.

FEATURES	BENEFITS
Environmentally Friendly	100% renewable to reduce carbon footprint
Compatibility	Non- & Low- polarity polymers & other process oils
Low pour point	Performance in low temperature environments
Low volatility	Minimal evaporative losses, no VOC during processing, reduces fogging, enhances flexibility retention
No sulfur content	Contributes to lower emissions
Stable	Thermally and UV stable with good color retention

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### TYPICAL PROPERTIES

Properties	Method	PureNova 2609	PureNova 2304	PureNova 1351	Application space for PureNova process oils:	
Appearance	Visual	Bright & Clear	Bright & Clear	Bright & Clear		Automotive Coatings, adhesive & sealants Consumer goods Foam Footwear Heat transfer fluids Hoses & gaskets Insulation Marine Polymeric gels Polymer modified asphalt Roofing compound Tubing Wire & cable
Color	ASTM D156	> 28	+ 30	> 28		
Density, 15°C (kg/L)	ASTM D4052	0.835	0.819	0.780		
Refractive Index, 20°C		1.464	1.456	1.441		
Viscosity, 40°C (cSt)	ASTM D445	58.5	19.0	2.8		
Viscosity, 100°C (cSt)	ASTM D445	9.5	4.3	1		
Viscosity, 100°F (SUS)	<i>Estimated</i>	271.0	88.0	13.0		
Pour point (°C)	ASTM D5949	-21	-43	< -15		
Flash point (°C)	ASTM D92	260	230	135		
Bromine Index	ASTM D2710	< 200	< 200	< 200		
Biodegradability (%)	OECD 301B	<i>Inherently Biodegradable</i>	<i>Readily Biodegradable</i>	<i>Readily Biodegradable</i>		
Biobased Carbon Content	ASTM D6866 <sup>1</sup>	100%	100%	100%		
Ecotoxicity	OECD 201, 202 & 203	Pass	Pass	Pass		
Carbon Type Analysis (%)						
• Ca	Internal Method	< 1	< 1	<1		
• Cn		< 1	< 1	<1		
• Cp		> 99	> 99	>99		

1 = Key raw materials are agriculturally sourced

Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

