

HyPrene B0300

Black Oil Marketing Specification

This naphthenic-based black oil is a blend of hydrotreated base oils and heavy residuals. It is primarily developed as an aromatic replacement for use in the rubber industry.

TEST DESCRIPTION	TEST METHOD	SPECIFICATIONS		TYPICAL VALUES
		MIN	MAX	
Physical Properties				
Viscosity, SUS at 100°F (37.8°C)	ASTM D2161	2800	3200	3113
Viscosity, SUS at 210°F (98.9°C)	ASTM D2161			126.8
Viscosity, cSt at 40°C (104°F)	ASTM D445			565
Viscosity, cSt at 100°C (212°F)	ASTM D445			25.5
API Gravity, 60°F (15.6°C)	ASTM D1250			20.6
Specific Gravity, 60°F (15.6°C)	ASTM D4052			0.9301
Viscosity-Gravity Constant	ASTM D2501			0.852
Density, lbs/gal at 60°F	ASTM D1250			7.746
Molecular Weight	ASTM D2502			540
Flash Point, COC, °F (°C)	ASTM D92	500 (260)		514 (268)
Color, ASTM	ASTM D6045			D8.0
Pour Point, °F (°C)	ASTM D5949			16 (-9)
Volatility, wt%, 225°F (Evap. Loss)	ASTM D972		0.10	0.04
Water Content	ASTM D7546M	PASS		PASS
Glass Transition Temperature (Tg), °C	ASTM D3418			-54
Chemical Properties				
Acid Number, mg KOH/g	ASTM D664			0.11
Aniline Point, °F (°C)	ASTM D611			208.1 (97.9)
Sulfur, wt%	ASTM D4294			0.180
Sulfur, ppm	ASTM D4294			1799
Refractive Index, 20°C (68°F)	ASTM D1218			1.5138
UV Absorptivity at 260 nm	ASTM D2008			7.52
Clay-Gel, wt%	ASTM D2007			
Asphaltenes				1.6
Polar Compounds				7.1
Aromatics				40.3
Saturates				51.0
Health and Safety Properties				
Total Regulated PAH,* ppm	GCMS		10	6.3
Benzo(a)pyrene,† ppm	GCMS		1	0.2

*2005/69/EC
HyPrene B0300 is a product of Ergon Refining, Inc.
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