

# VISCOPLEX® 6-054

An Exceptionally Shear-Stable Dispersant VI Improver

A RohMax Product



## Function

VISCOPLEX® 6-054 is a multifunctional dispersant polyalkyl methacrylate (PAMA) combining the functions of viscosity index improver (VII), pour point depressant (PPD), and low-temperature soot dispersant.

## Performance

This product is used in both gasoline and diesel engine oils. It is particularly useful in the formulation of multi-grade diesel engine oils, where it provides an excellent combination of high- and low-temperature viscometric properties and soot dispersancy. VISCOPLEX® 6-054 makes a substantial contribution to soot control and viscosity increase, particularly in long-drain-interval, heavy-duty diesel oils (HDDO).

## Composition

VISCOPLEX® 6-054 is a solution of dispersant polyalkyl methacrylate (PAMA) in highly refined mineral oil.

## Physical Data

Table 1 lists representative physical properties. (These do not constitute specifications.)

## Blending Efficiency

The contribution to the kinematic viscosity at 100 °C of VISCOPLEX® 6-054 in straight mineral base oils is shown in Table 2.

## VISCOPLEX® Series 6 Engine Oil Viscosity Index Improvers

**Typical Physical Properties of VISCOPLEX® 6-054**

**Table 1**

Visual Appearance	Viscous, clear to slightly hazy
Color (ASTM D1500)	1
Viscosity at 100 °C, mm <sup>2</sup> /s (ASTM D445)	500
Density at 15 °C, g/cm <sup>3</sup> (ASTM D4052)	0.91
Flash Point, °C (ASTM D3278)	120
Shear Stability Index (PSSI) (ASTM D6278)	5

**Table 2 Thickening Effect of VISCOPLEX® 6-054 at 100 °C**

	100 N			150 N			200 N			350 N		
VISCOPLEX® 6-054, % wt	0	5	10	0	5	10	0	5	10	0	5	10
Viscosity at 100 °C, mm <sup>2</sup> /s	4.0	5.5	7.9	5.1	7.7	10.9	6.2	9.0	12.6	8.9	12.8	17.4

### Density

The typical density of VISCOPLEX® 6-054, as a function of temperature, is given in Figure 1.

### Bulk Viscosity

The typical bulk viscosity of VISCOPLEX® 6-054, as a function of temperature, is given in Figure 2.

### Additional Information

For additional information on product availability, performance data and Material Safety Data Sheets, please contact your RohMax account manager or Customer Service Representative.

For an overview of our entire VISCOPLEX® and VISCOBASE® product range and complete information on handling and storage, please visit the Products & Applications section on our website [www.rohmax.com](http://www.rohmax.com).

Figure 1 Density vs. Temperature

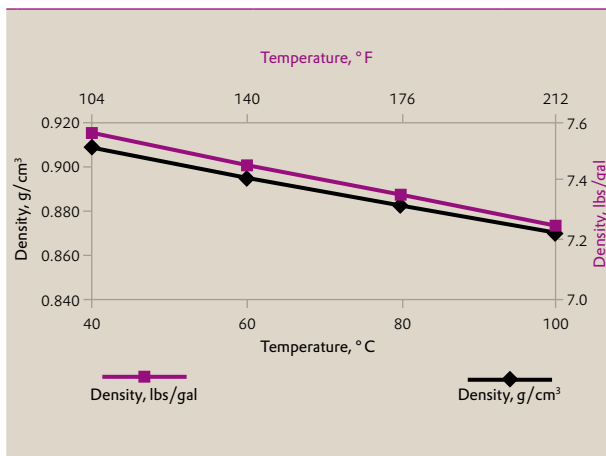
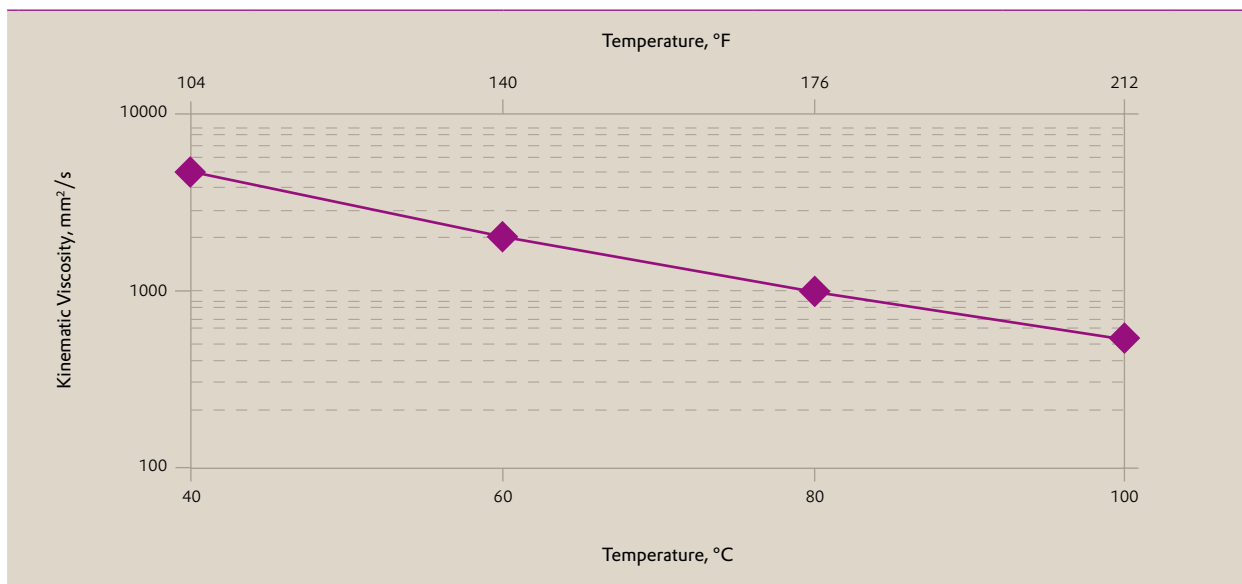


Figure 2 Kinematic Viscosity vs. Temperature



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