

Technical Data Sheet: Isodecyl Pelargonate Plastecizer (IDP)

Composition

Isodecyl pelargonate

Technical Data

Item		Value	Method / Remarks
Flash Point:		172° C/340° F	ASTM D-92
Pour Point:		-72° C/-100° F	ASTM D-97
Acid Value:		0.05 mg KOH/g	ASTM D-974
Hydroxyl Value:		1.0 mg KOH/g	Emery 116.02
Density:	15.6° C/60° F	867 (7.22) lbs./gal.	By conversion
Viscosity:	100 °C	1.7	ASTM D-445
Viscosity Index:		145	ASTM D-2270
Refractive Index:	25 °C	1.4406	ASTM D-1218
Cloud Point Index:			
Viskosität, SUS		210° F/99° C - 31.9	ASTM D-2161
Fire point		184° C/360° F	ASTM D-92

Quality Control Data

(These data are used for quality release and are certified for each batch.)

Item		Value	Method / Remarks
Flash Point:		172° C/340° F	ASTM D-92
Pour Point:		-72° C/-100° F	ASTM D-97
Acid Value:		0.05 mg KOH/g	ASTM D-974
Hydroxyl Value:		1.0 mg KOH/g	Emery 116.02
Density:	15.6° C/60° F	867 (7.22) lbs./gal.	By conversion
Viscosity:	100 °C	1.7	ASTM D-445
Viscosity Index:		145	ASTM D-2270
Refractive Index:	25 °C	1.4406	ASTM D-1218
Viskosität, SUS		210° F/99° C - 31.9	ASTM D-2161
Fire point		184° C/360° F	ASTM D-92

Properties & Use

Isodecyl Pelargonate Plastecizer (IDP)

Isodecyl Pelargonate Plastecizer (IDP) exhibits unusually low viscosity characteristics, and is especially suitable for extremely low temperature applications.

Isodecyl Pelargonate Plastecizer (IDP) provides the formulator with an economical blending fluid for low temperature modification of industrial and automotive lubricants. Additionally, Isodecyl Pelargonate Plastecizer (IDP) possesses the flash point and volatility characteristics of low viscosity (75 SUS) solvent-extracted naphthenic oils.

Rubber Swell Properties of Isodecyl Pelargonate Plastecizer (IDP)

H rubber

70°C (158°F), 72 hrs.

Volume swell, % +16

70°C (158°F), 168 hrs.

Volume swell, % +16

F rubber

175°C (347°F), 72 hrs.

Volume swell, % +11

Tensile strength, % -6

Elongation, % +8

Shore A hardness, -7

200°C (392°F), 72 hrs.

Volume swell, % +14

Tensile strength, % -33

Elongation, % +4

Shore A hardness, -19

204°C (400°F), 72 hrs.

Volume swell, % +14

Tensile strength, % -39

Elongation, % -3

Shore A hardness, -12

Silicone rubber

150°C (302°F), 72 hrs.

Volume swell, % +11

Tensile strength, % -56

Elongation, % -13

Shore A hardness, -14

177°C (350°F), 72 hrs.

Volume swell, % +15

Tensile strength, % -75

Elongation, % -9

Shore A hardness, -24

L rubber (Nitrile)

70°C (158°F), 168 hrs.

Volume swell, % +44

Remarks

Handling & Safety:

Please refer to safety data sheet.

Storage:

The product can be stored for at least 3 years at ambient storage conditions and temperature without any deterioration.

Information provided in this technical literature is believed to be accurate. However, RCS RMC, Inc. assumes no liability and makes no warranty or representation that the information is correct or complete. Final determination of suitability of any material and issues of patent infringement are the sole responsibility of the user who alone knows the conditions of intended use.