



FORMOSA PLASTICS CORPORATION

FORMOLON PR-F GRADE

PR-F is a high molecular weight plastisol dispersion resin which exhibits proper paste viscosities as well as excellent heat stability and air release. This product was designed for leather, foaming product and other are as where high physical properties are essential.

CHARACTERISTICS OF FORMOLON PR-F:

- ★ Proper Brookfield viscosity and middle Severs viscosity
- ★ Proper yield value for dipping molding
- ★ Good air release property of plastisol
- ★ Excellent mold release property
- ★ Excellent elasticity and softness of foaming products
- ★ Good stability of plastisol.

TYPICAL RESIN PROPERTIES:

K-Value	76
Polymerization degree	1,600 ±100
Volatiles	0.50 % ↓
Apparent density	0.20~0.35 g/c.c

TYPICAL PLASTISOL¹ PROPERTIES:

Brookfield viscosity ²	3,000 ~ 5,000 cps
Severs ³	150 g/100sec ↑

Notes:

1. Resin 100phr DOP 60phr, hobart N-50 mixed 5min at No1 speed and 15min at No2 speed.

2. Plastisol aged 2hrs at 25°C, measured No.6 spin 50rpm.

3. 2hr plastisol detected on 90psi.



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FORMOLON PR-F F GRADE

PR-F is a high molecular weight plastisol dispersion resin which exhibits proper paste viscosities as well as excellent heat stability and air release. This product was designed for leather, foaming product and other are as where high physical properties are essential.

CHARACTERISTICS OF FORMOLON PR-F F GRADE:

- ★ Proper Brookfield viscosity and middle Severs viscosity
- ★ Proper yield value for dipping molding
- ★ Good air release property of plastisol
- ★ Excellent mold release property
- ★ Excellent elasticity and softness of foaming products
- ★ Good stability of plastisol.

TYPICAL RESIN PROPERTIES:

K-Value	76
Polymerization degree	1,600 ±100
Volatiles	0.50 % ↓
Apparent density	0.20~0.35 g/c.c

TYPICAL PLASTISOL¹ PROPERTIES:

Brookfield viscosity ²	5,000 ~ 7,000 cps
Severs ³	90 g/100sec ↓

Notes:

1. Resin 100phr DOP 60phr, hobart N-50 mixed 5min at No1 speed and 15min at No2 speed.

2. Plastisol aged 2hrs at 25°C, measured No.6 spin 50rpm.

3. 2hr plastisol detected on 90psi.



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FORMOLON SPR-D

FORMOLON PR-D with average particle size of 35-45um is one kind of blending resin which is manufactured by suspension process, and its main function is to reduce the viscosity of plastisol. It could be blended with emulsion PVC, such as FORMOLON PR-F, PR-1069, PR-415, and PR-450, applied to manufacture floor carpets, automobile parts, dolls, and toys, etc.

CHARACTERISTICS OF FORMOLON PR-D:

- ★ Good depression viscosity of plastisol
- ★ Low gloss property
- ★ Good foaming products
- ★ Good stability of plastisol
- ★ Good air release property

TYPICAL RESIN PROPERTIES:

K-Value	65
Polymerization degree	1,000
Volatiles	0.50 % ↓
Apparent density	0.50~0.60 g/c.c
Vinyl acetate	2~3 %

TYPICAL PLASTISOL¹ PROPERTIES:

Depression viscosity ²	30% ↑
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Notes:

1. Plastisol A: PR-450 100phr with DOP 60phr, Plastisol B: PR-450/PR-D=70/30 100phr with DOP 60phr was separately prepared.

2. Plastisol aged 2hrs at 25°C, measured No.6 spin 50rpm., then calculated as follows formula
$$100 \times (\text{Viscosity A} - \text{Viscosity B}) / \text{Viscosity A} = \text{Depression Viscosity}$$



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FORMOSA PLASTICS CORPORATION

FORMOLON PR-1069 GRADE

FORMOLON PR-1069 is a high molecular weight PVC homopolymer paste resin with low residual surfactant content, Plastisol prepared using PR-1069 exhibit low viscosity as well as excellent clarity and heat stability. FORMOLON PR-1069 has been successful in variety of applications where clarity, low fogging, low moisture sensitivity, excellent mechanical property, and abrasion resistance are required.

CHARACTERISTICS OF FORMOLON PR-1069:

- ★ Low Brookfield and Severs viscosity
- ★ Excellent mechanical property and abrasion resistance
- ★ Excellent clarity, good use for surface layer of carpets
- ★ Heat stability and initial color of molded products is excellent
- ★ Excellent air release property
- ★ Low moisture sensitivity is widely used to floorcovering

TYPICAL RESIN PROPERTIES:

K-Value	80
Polymerization degree	1,750
Volatiles	0.50 % ↓
Apparent density	0.20~0.30 g/c.c

TYPICAL PLASTISOL¹ PROPERTIES:

Brookfield viscosity ²	5,501 ~ 6,000 cps
Severs ³	200 g/100sec ↑

Notes:

1. Resin 100phr DOP 60phr, hobart N-50 mixed 5min at No1 speed and 15min at No2 speed.

2. Plastisol aged 2hrs at 25°C, measured No.6 spin 50rpm.

3. 2hr plastisol detected on 90psi.



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FORMOSA PLASTICS CORPORATION

FORMOLON PR-1069 F GRADE

FORMOLON PR-1069 is a high molecular weight PVC homopolymer paste resin with low residual surfactant content, Plastisol prepared using PR-1069 exhibit low viscosity as well as excellent clarity and heat stability. FORMOLON PR-1069 has been successful in variety of applications where clarity, low fogging, low moisture sensitivity, excellent mechanical property, and abrasion resistance are required.

CHARACTERISTICS OF FORMOLON PR-1069:

- ★ Low Brookfield and Severs viscosity
- ★ Excellent mechanical property and abrasion resistance
- ★ Excellent clarity, good use for surface layer of carpets
- ★ Heat stability and initial color of molded products is excellent
- ★ Excellent air release property
- ★ Low moisture sensitivity is widely used to floorcovering

TYPICAL RESIN PROPERTIES:

K-Value	80
Polymerization degree	1,750
Volatiles	0.50 % ↓
Apparent density	0.20~0.30 g/c.c

TYPICAL PLASTISOL¹ PROPERTIES:

Brookfield viscosity ²	8,501 ~ 9,000 cps
Severs ³	150 g/100sec ↑

Notes:

1. Resin 100phr DOP 60phr, hobart N-50 mixed 5min at No1 speed and 15min at No2 speed.

2. Plastisol aged 2hrs at 25°C, measured No.6 spin 50rpm.

3. 2hr plastisol detected on 90psi.



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FORMOSA PLASTICS CORPORATION

FORMOLON PR-415 GRADE

FORMOLON PR-415 is a molding grade paste resin specially developed by emulsion polymerization. This resin can be widely applied to molding products such as flexible or rigid dolls, toys, boots, automotive products, etc. FORMOLON PR-415 plastisol has very low viscosity and excellent flow characteristics at any shear rate. It is suitable for preparing low viscosity plastisol to be used in slush and rotational molding.

CHARACTERISTICS OF FORMOLON PR-415:

- ★ Low Brookfield and Severs viscosity
- ★ Excellent air release of plastisol
- ★ Easy mold release
- ★ Heat stability and initial color of molded products is excellent
- ★ Finished products have excellent physical properties

TYPICAL RESIN PROPERTIES:

K-Value	74.5
Polymerization degree	1,450
Volatiles	0.80 % ↓
Apparent density	0.20~0.30 g/c.c

TYPICAL PLASTISOL¹ PROPERTIES:

Brookfield viscosity ²	6,001 ~ 8,000 cps
Severs ³	200 g/100sec ↑

Notes:

1. Resin 100phr DOP 60phr, hobart N-50 mixed 5min at No1 speed and 15min at No2 speed.

2. Plastisol aged 2hrs at 25°C, measured No.6 spin 50rpm.

3. 2hr plastisol detected on 90psi.



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FORMOSA PLASTICS CORPORATION

FORMOLON PR-450 C GRADE

FORMOLON PR-450 is a low molecular weight PVC homopolymer paste resin, based on its very excellent foamability, FORMOLON PR-450 has been widely applied to various chemical foaming products such as floor covering, wall covering, foamsheet, casting leather and automotive accessories.

CHARACTERISTICS OF FORMOLON PR-450:

- ★ Middle Brookfield and Severs viscosity
- ★ Excellent foamability.
- ★ Excellent cell structure of foaming products
- ★ Good stability of plastisol
- ★ Good air release property

TYPICAL RESIN PROPERTIES:

K-Value	65
Polymerization degree	1,000±100
Volatiles	0.20~0.50 %
Apparent density	0.20~0.35g/c.c
Residue on sieve 0.250mm	0.0~0.2 %
0.063mm	0.1~3.0 %

TYPICAL PLASTISOL¹ PROPERTIES:

Brookfield viscosity ²	6,001 ~ 7,500 cps
Severs ³	230 g/100sec ↑

Notes:

1. Resin 100phr DOP 60phr, hobart N-50 mixed 5min at No1 speed and 15min at No2 speed.

2. Plastisol aged 2hrs at 25°C, measured No.6 spin 50rpm.

3. 2hr plastisol detected on 90psi.



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FORMOSA PLASTICS CORPORATION

FORMOLON PR-450 (F GRADE)

FORMOLON PR-450 is a low molecular weight PVC homopolymer paste resin, based on its very excellent foamability, FORMOLON PR-450 has been widely applied to various chemical foaming products such as floor covering, wall covering, foamsheet, casting leather and automotive accessories.

CHARACTERISTICS OF FORMOLON PR-450:

- ★ Middle Brookfield and Severs viscosity
- ★ Excellent foamability.
- ★ Excellent cell structure of foaming products
- ★ Good stability of plastisol
- ★ Good air release property

TYPICAL RESIN PROPERTIES:

K-Value	65
Polymerization degree	1,000±100
Volatiles	0.20~0.50 %
Apparent density	0.20~0.35g/c.c

TYPICAL PLASTISOL¹ PROPERTIES:

Brookfield viscosity ²	8,001 ~ 8,500 cps
Severs ³	150 g/100sec ↑

Notes:

1. Resin 100phr DOP 60phr, hobart N-50 mixed 5min at No1 speed and 15min at No2 speed.

2. Plastisol aged 2hrs at 25°C, measured No.6 spin 50rpm.

3. 2hr plastisol detected on 90psi.



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FORMOLON PR-415 F GRADE

FORMOLON PR-415 is a molding grade paste resin specially developed by emulsion polymerization. This resin can be widely applied to molding products such as flexible or rigid dolls, toys, boots, automotive products, etc. FORMOLON PR-415 plastisol has very low viscosity and excellent flow characteristics at any shear rate. It is suitable for preparing low viscosity plastisol to be used in slush and rotational molding.

CHARACTERISTICS OF FORMOLON PR-415:

- ★ Low Brookfield and Severs viscosity
- ★ Excellent air release of plastisol
- ★ Easy mold release
- ★ Heat stability and initial color of molded products is excellent
- ★ Finished products have excellent physical properties

TYPICAL RESIN PROPERTIES:

K-Value	74.5
Polymerization degree	1,450
Volatiles	0.80 % ↓
Apparent density	0.20~0.30 g/c.c

TYPICAL PLASTISOL¹ PROPERTIES:

Brookfield viscosity ²	8,001 ~ 8,500 cps
Severs ³	150 g/100sec ↑

Notes:

1. Resin 100phr DOP 60phr, hobart N-50 mixed 5min at No1 speed and 15min at No2 speed.

2. Plastisol aged 2hrs at 25°C, measured No.6 spin 50rpm.

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