



Vinyl Co-Polymer Resins

- **TMCH VINYL RESIN**
- TEGD VINYL RESIN
- TEGF VINYL RESIN
- TEGH VINYL RESIN
- TEHD VINYL RESIN
- TEHH VINYL RESIN
- TENS VINYL RESIN
- TEOH VINYL RESIN

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Description

TMCH vinyl resin is a high molecular weight carboxyl-functional terpolymer comprised of vinyl chloride, vinyl acetate, and maleic acid. It is supplied as a powder.

Applications

TMCH Vinyl Resin is used to make heat-sealable packaging coatings and adhesions, metal food can linings, and maintenance and marine coatings, as well as a wide variety of clear and pigmented inks and coatings for paper, film, foil, and fabric.

Advantages

- Highly flexible, post-formable coatings on metal coil and sheet
- Adhesion to vinyl, metals, concrete, and cellulosic substrates
- Tasteless, odorless
- Cited in FDA regulates for use in food-contact applications

Storage and Handling

The Company strongly encourages its customers to review the Material Safety Data Sheet (MSDS) on this product prior to its use. For further storage and handling information, Vinyl Resin Storage and Handling, Form. No. 322 – 00054

Physical Properties (~)

Molecular Weight, Number Average	27,000
Acid number	10
Inherent Viscosity ASTM – D1243	0.50
Specific Gravity ASTM – D792	1.35
Glass Transition Temperature (T _g), °C	74
Viscosity 25 °C, cP (30% solids in MEK)	650
Composition	
Percent Vinyl Chloride	86
Percent Vinyl Acetate	13

(~) These data are typical values and cannot be construed as specifications.

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Description

TEGD Vinyl Resin is a medium molecular weight, hydroxyl – functional, partially – hydrolyzed vinyl chloride / vinyl acetate resin. It is supplied as a powder.

Applications

TEGD Vinyl Resin can be used for a wide range of coatings applications, including wood finishes, paper coatings, metal decorative and container coatings and industrial maintenance and marine finishes.

Advantages

- Crosslinkable with amino resins or polyisocyanates
- Compatibility with many generic resins including alkyds, and acrylics
- Adhesion to vinyl, cellulosic and treated polyester and PE substrates
- Low viscosity and higher solids than TEGH solution vinyl resins
- Cited in FDA regulations for use in food-contact applications

Storage and Handling

ACR strongly encourages its customers to review the Material Safety Data Sheet (MSDS) on this product prior to its use.

Physical Properties (~)

Molecular Weight, Number Average	22,000
Hydroxyl Value	76
Hydroxyl Equivalent Weight	738
Inherent Viscosity ASTM – D1243	0.44
Specific Gravity ASTM – D792	1.39
Glass Transition Temperature (T _g), °C	77
Viscosity 25 °C, cP (30% solids in MEK)	400
Composition	
Percent Vinyl Chloride	90
Percent Vinyl Acetate	4

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Description

TEGF vinyl resin is a high molecular weight hydroxyl-functional terpolymer comprised of vinyl chloride, vinyl acetate, and a hydroxyl alkali acrylate. It is supplied as powder.

Applications

TEGF Vinyl Resin can be used in wide variety of clear ad pigmented coatings for metal, wood, paper, film, foil and fabric and as a binder in magnetic tape. This product is not intended for food contact applications.

Advantages

- Highly film strength
- Crosslinkable with amino resins or polyisocyanates
- Compatible with many generic resins like alkyds and acrylics
- Adhesion to vinyl cellulose and treated polyester and PE substrates

Storage and Handling

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Physical Properties (~)

Molecular Weight, Number Average	33,000
Hydroxyl Value	59
Hydroxyl Equivalent Weight	951
Inherent Viscosity ASTM – D1243	0.56
Specific Gravity ASTM – D792	1.37
Glass Transition Temperature (T _g), °C	70
Viscosity 25 °C, cP (30% solids in MEK)	930
Composition	
Percent Vinyl Chloride	81
Percent Vinyl Acetate	4

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Description

TEGH Vinyl Resin is a high molecular weight, hydrozyl – functional, partially – hydrolyzed vinyl chloride / vinyl acetate resin. It is supplied as a powder.

Applications

TEGH Vinyl Resin can be used for a wide range of coatings applications, including flexible packaging, wood finishes, paper coatings, metal decorative and container coatings, industrial maintenance and marine finishes, and as a binder in magnetic tape.

Advantages

- Crosslinkable with amino resins or polyisocyanates
- Compatibility with many generic resins including alkyds, and ACRylics
- High Tg imparts good sandability in vinyl / alkyd / urea wood sealers
- Resistance to water, alcohols, and aliphatic hydrocarbons
- Adhesion to vinyl, cellulosic and treated polyester and PE substrates
- Heat-sealable
- Tasteless, odorless
- Cited in FDA regulations for use in food-contact applications

Storage and Handling

ACR strongly encourages its customers to review the Material Safety Data Sheet (MSDS) on this product prior to its use.

Physical Properties (~)

Molecular Weight, Number Average	27,000
Hydroxyl Value	76
Hydroxyl Equivalent Weight	738
Inherent Viscosity ASTM – D1243	0.53
Specific Gravity ASTM – D792	1.39
Glass Transition Temperature (Tg), °C	79
Viscosity 25 °C, cP (30% solids in MEK)	1000
Composition	
Percent Vinyl Chloride	90
Percent Vinyl Acetate	4

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Description

TEHD vinyl resin is a medium molecular weight copolymer of vinyl chloride and vinyl acetate. It is supplied as powder. The vinyl chloride content is about 86%

Introduction

TEHD Vinyl Resin has a lower molecular weight than TEHH. It has greater tolerance for aromatic hydrocarbon diluents.

Advantages

- Clear coatings for Metal, Wood, Paper, Film, Foil and Fabric
- Pigmented coatings for Metal, Wood, Paper, Film, Foil and Fabric
- Inks and Overlacquers for vinyl substrates
- FDA approved for Food contact applications

Storage and Handling

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Physical Properties (~)

Molecular Weight, Number Average	20,000
K Value	42
Degree of Polymerization	335
Inherent Viscosity ASTM – D1243	0.40
Specific Gravity ASTM – D792	1.30
Glass Transition Temperature (T _g), °C	70
Viscosity 25 °C, cP (30% solids in MEK)	150
Composition	
Percent Vinyl Chloride	86
Percent Vinyl Acetate	14

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Description

TEHH vinyl resin is a high molecular weight copolymer of vinyl chloride and vinyl acetate. It is supplied as powder. The vinyl chloride content is about 86%.

Introduction

TEHH Vinyl Resin provides a good balance of chemical resistance, solubility, film strength and Thermoplasticity. The resin is miscible with functionalized solution vinyl resins. TEHH provides adhesion to PVC substrates.

Advantages

- Adhesives
- Industrial Coatings
- Civil Engineering
- Inks and Overlacquers
- Marine and Maintenance
- FDA Approved for Food Contact Applications

Storage and Handling

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Physical Properties (~)

Molecular Weight, Number Average	27,000
K Value	46
Degree of Polymerization	415
Inherent Viscosity ASTM – D1243	0.50
Specific Gravity ASTM – D792	1.35
Glass Transition Temperature (T _g), °C	72
Viscosity 25 °C, cP (30% solids in MEK)	600
Composition	
Percent Vinyl Chloride	86
Percent Vinyl Acetate	14

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Description

TENS vinyl resin is a high molecular weight copolymer of vinyl chloride and vinyl acetate. It is supplied as powder. The vinyl chloride content is about 90%.

Introduction

TENS Vinyl Resin is our highest molecular weight SVR Resin. It provides high toughness, durability, chemical and stain resistance. It also provides adhesion to rigid and flexible PVC substrates. It has excellent tensile strength in strippable coatings.

Advantages

- Strippable Coatings
- Overlacquers and Coatings for Civil Engineering
- Clear and Pigmented Coatings
- Topcoats for Synthetic Leather
- FDA Approved for Food Contact Applications

Storage and Handling

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Physical Properties (~)

Molecular Weight, Number Average	44,000
K Value	56
Degree of Polymerization	680
Inherent Viscosity ASTM – D1243	0.74
Specific Gravity ASTM – D792	1.36
Glass Transition Temperature (T _g), °C	79
Viscosity 25 °C, cP (30% solids in MEK)	1300
Composition	
Percent Vinyl Chloride	90
Percent Vinyl Acetate	10

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Description

TEOH is a low molecular weight, hydroxyl-functional terpolymer comprised of vinyl chloride, vinyl acetate and a hydroxylalkyl acrylate. It is supplied as a powder. The vinyl chloride content is ~81% while hydroxyl level is ~2%.

Introduction

TEOH has a high tolerance for alcohols and aliphatic hydrocarbon diluents. It is crosslinkable with amino resins and polyisocyanates and is also compatible with a wide variety of resins including polyesters and acrylics. The resin has good adhesion to vinyl, cellulose and treated polyester and PE substrates. The resin provides solutions which have lower viscosity and higher solids than other vinyl resins.

Typical Applications

- Strippable Coatings
- Overlacquers and Coatings for Civil Engineering
- Clear and Pigmented Coatings
- Topcoats for Synthetic Leather
- FDA Approved for Food Contact Applications

Technical Specifications (~)

Polymer Composition % by Wt	
VCI	81
Vac	4
Hydroxyl	15
Reactive Functionality	
Type	Hydroxyl
K Value	43
Hydroxyl Value	66
Inherent Viscosity	0.30
Specific Gravity	1.37
Glass Transition Temperature (Tg), °C	65
Average Molecular Wt Mn ¹	15,000
Solution Viscosity 25 °C, cP (30% solids in MEK)	70
Degree of Polymerization	200

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