Integrated Chemical Specialties

- a division of Integrated Traffic Systems USA

INDOREZ® HYDROCARBON

C5 Hydrocarbon Resin

bringing **solutions** to **complex** chemistry

INDOREZ®

Resins

Indorez® C5 Hydrocarbon Resin

Resins are a solid or highly viscous substance that is hydrophobic in nature. Resins can be of plant or synthetic origin; the former are secreted by plants and are usually transparent yellow to brown in color, whereas the latter are a hydrocarbon byproduct and are typically a mixture of organic compounds that can be converted into polymers. Their industry use is wide and well developed. Typically, they are used in the production of plastics, as well as lacquers and varnishes and are divided into two main categories: thermoplastic resins, which can be reshaped once melted; and thermosetting resins which become insoluble and infusible upon heating.

INDOREZ® C5 Hydrocarbon Resin – HMRM is a C5 aromatic hydrocarbon resin with wide industrial applications for plastics, thermoplastics, paints and adhesives. This product is on par with industry specifications and of high grade and quality. Listed in the table below are typical industrial applications for INDOREZ® C5 Hydrocarbon Resin, Grade – HMRM.

Introduction

INDOREZ® is pale yellow C5 aliphatic hydrocarbon resin having excellent color, flow, heat stability and thus highly recommended for Hot Melt Road Marking paints.

This resin shows outstanding affinity for pigments and superior processability in the Hot Melt Road Marking Paints Application.

Industry	Application
Thermoplastic Paints	Hot Melt Road Marking Compounds
Rubber Production	Tackifiers and Modified Wax Compounds
Plastic Production	Master Batches and Non-woven product assembly
Tapes and Labels	Non-woven product assembly, Pressure sensitive additive, Tackifier

TEST	UNIT	SPECIFICATIONS
Appearance	-	Water White Granules
Color	Hazen	Max 50
Specific Gravity (20/20 °C)	-	1.08
Softening Point (Ring and Ball)	°C	100 – 110
Ash content	%	Max 0.1
Acid value	mg KOH/g	Max 0.1
Color Stability @ 200 °C, 5Hrs	Ga#	< 1
Melt Viscosity BRF, @160 °C	Cps	160 – 240
Methyl Ethyl Ketone	-	3 – 4
Xylene	-	3 – 4
Mineral Spirits	-	5

Classic Applications

Thermoplastic Paints

Tapes & Labels

Plastics

Applications

- Glued stick adhesive
- Hot Melt pressure sensitive Adhesive

Storage

Storage under normal conditions and quick processing of open bags is recommended.

Packaging

25 Kgs net PP woven bag inner PE bag/ 25kgs net Kraft paper bag/ 500 Kgs net bulk bag.

Indorez® C2 Hydrocarbon Resin (C5 Hydrogenated Resin)

INDOREZ® C5 Hydrogenated Hydrocarbon Resin is made from mixed aromatic/ aliphatic resins which undergo the process of hydrogenation to make them suited for a wide range of applications such as adhesives and tackifiers, hotmelt marking compounds and petroleum wax components in rubber manufacturing. Controlling the process of hydrogenation determines the exact aromatic/aliphatic balance of the product which then determines its application. INDOREZ® C2 Hydrocarbon Resin has an initial water-white color, excellent thermal stability and broad product compatibility. It is also used as an additive to improve wellbore stability within the oil and gas sector where during the well drilling process it is added to improve filter cake, provide lubricity or stop lost circulation and prevent drainage. Listed below are some of the industry uses for INDOREZ® C2 Hydrocarbon Resin (C5 Hydrogenated Resin).

Introduction

INDOREZ® H2 Hydrocarbon Resin is water-white thermoplastic resin obtained from polymerization and hydrogenation of cyclic ingredients. The major usages are tackifier for hot melt adhesive (HMA), hot melt pressure sensitive adhesive (HMPSA) and solvent based pressure sensitive adhesive (SBPSA), because of its good heat resistance and good compatibility with base polymers such as ethylene vinyl acetate (EVA), styrene block copolymer(SBC).

Industry	Application
Oil and Gas	Additives to improve wellbore stability and prevent drainage. Secondary annular barrier for disposal wells, used for remediation of water or gas leaks
Thermoplastic Industry	Hot Melt Road Marking Compound, Hot Melts based on Amorphous Polyolefin
Adhesives and Tackifiers	Polyethylene Based Packaging Adhesives, SIS Based Hot Melt Non-Woven Assembly Adhesives
Rubber Manufacturing	Petroleum wax compounds
Food Packaging	EVA Based Packaging Adhesives using EVA with less than 28% VA content

Classic Applications

Oil & Gas

Rubber Industries

Food Packaging

TEST	UNIT	SPECIFICATIONS
Appearance	–	Water White Granules
Color	Hazen	Max 50
Specific Gravity (20/20 °C)	–	1.08
Softening Point (Ring and Ball)	°C	100 – 110
Ash content	%	Max 0.1
Acid value	mg KOH/g	Max 0.1
Color Stability @ 200 °C, 5Hrs	Ga#	< 1
Melt Viscosity BRF, @160 °C	Cps	160 – 240
Residue On 45 Microns Sieve	% by Wt	Nil

Applications

- Glued stick adhesive
- Hot Melt pressure sensitive Adhesive

Storage

Storage under normal conditions and quick processing of open bags is recommended.

Packaging

25 Kgs net PP woven bag inner PE bag/ 25kgs net Kraft paper bag/ 500 Kgs net bulk bag.

ABOUT

Integrated Chemical Specialties

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Integrated Chemical Specialties comprises a competent team of professionals who strive hard to ensure the highest level of quality and service in our business. It is our goal to deliver every product meeting the quality and consistency that our customers expect, irrespective of its origin. Our specialty chemicals are used in a variety of applications and industries. We offer customized solutions through formulated products and excellent technical support.

We consider ourselves a versatile and customer centric company that works closely with its customers to provide them the products they need. Our dedication and motivation have made us who we are today, as that also shapes our future.

At Integrated Chemical Specialties, we believe building solid partnerships with our customer is critical to our success. We as a company endeavor to follow the right path, which will allow us to continue meeting new challenges and exceeding expectations.

YOUR SAFETY OUR CONCERN

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