


 High performance **KOLon's REZ(s)**in C5 Resins

Technical Data Sheet : T-3100

1.Description

HIKOREZ[®] T-3100 is pale yellow thermoplastic C9 modified C5 resin. It is obtained from polymerizing unsaturated aliphatic and aromatic olefins and diolefins derived from the process of thermal cracking of naphtha. The major usages are tackifier for solvent based pressure sensitive adhesive(SBPSA), hot melt based pressuresensitive adhesive(HMPSA) and hot melt adhesive(HMA).

2.Product specifications

| | | |
|-------------------------------------|--------|-------------|
| • Softening Point (Ring & Ball, °C) | 94-102 | ASTM E-28 |
| • Color (Molten Resin, Ga.#) | Max 8 | ASTM D-1544 |

3.Typical properties

| | | |
|---------------------------------------|-------|-------------|
| • Specific Gravity (20/20°C) | 1.02 | ASTM D-71 |
| • Softening Point (Ring & Ball, °C) | 100 | ASTM E-28 |
| • Color (Molten Resin, Ga.#) | 6.5 | ASTM D-1544 |
| • Heat Stability (@200°C, 3hrs, Ga.#) | 8.3 | ASTM D-1544 |
| • Acid Value (KOH mg/g) | 0.13 | ASTM D-1639 |
| • Melt Viscosity BRF, @140°C, cps | 4,700 | ASTM D-3236 |
| BRF, @200°C, cps | 110 | |
| • Molecular Weight (GPC, Mw) | 2,000 | G.P.C |

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4.Packaging & Storage

•Packaging

Available in big bags of 1,000kg net weight and in multi-ply paper bags of 25kg net weight.

• Storage

Pelletized forms of resins may block or lump.It is recommended,

- to store inside and keep cool condition
(30°C max / resin with softening point below 100°C - 25°C max)
- not stacking pallets
- to avoid sunlight

Especially, low softening point resins(below 100 °C) has a higher possibility of blocking due to the nature of product. Therefore, we strongly recommend that keep storing in more strict conditions.

5.Shelf life

The shelf life can be affected by storage and handling conditions. When products are stored in the original unopened container in an enclosed area and protected from contamination,moisture and extreme temperatures, the shelf life of HIKOREZ[®] is **1 year** from the date of manufacture.

Shelf life is a guide not an absolute value, and KOLON doesn't control end uses and storage conditions at customers. Therefore, the product should be reanalyzed for properties at the end of its shelf life to see if it meets specification for use.

6.Regulatory status

HIKOREZ[®] T-3100 is in compliance with the requirements of the U.S FDA for following sections.

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|-----------------|--|
| <u>175.105</u> | <u>Adhesives</u> |
| <u>175.125</u> | <u>Pressure sensitive adhesives</u> |
| <u>175.300</u> | <u>Resinous and polymeric coatings</u> |
| <u>175.320</u> | <u>Resinous and polymeric coatings for poly olefin films</u> |
| <u>176.170</u> | <u>Components of paper and paperboard in contact with aqueous and fatty foods.</u> |
| <u>176.180</u> | <u>Components of paper and paperboard in contact with dry food</u> |
| <u>177.1210</u> | <u>Closures with sealing gaskets for food containers</u> |
| <u>177.2600</u> | <u>Rubber articles intended for repeated use</u> |

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