# POLYTONE™ SYNTHETIC RESINS

## Ketone Formaldehyde Resin

### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>POLYTONE™ K-93</th>
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</thead>
<tbody>
<tr>
<td>Chemical Classification</td>
<td>Cyclohexanone Formaldehyde Resin</td>
</tr>
<tr>
<td>Physical Form</td>
<td>Pearl Shaped Granular Solid</td>
</tr>
<tr>
<td>Softening Point (Ball &amp; Ring Method)</td>
<td>98° C – 103 ° C</td>
</tr>
<tr>
<td>Viscosity of 50% solution in Industrial Spirit at 25° C by B 4 Ford Cup</td>
<td>15 - 17 sec</td>
</tr>
<tr>
<td>Iodine No of 50% solution in Iodine No of 50% solution in</td>
<td>1.0 Max</td>
</tr>
<tr>
<td>Hydroxyl Value</td>
<td>265-285 mg KOH / gm resin</td>
</tr>
<tr>
<td>Acid Value</td>
<td>1 mg KOH / gm resin (Max)</td>
</tr>
</tbody>
</table>

### Properties & Usage

These resins are highly effective in imparting gloss, adhesiveness, leveling and also in increasing the solid content leading to a reduction in the VOC. The hydroxyl polarity leads to better adhesion and wetting of pigments and surfaces. POLYTONE™ K-93 is used in the manufacture of all types of nitrocellulose and are useful in the manufacture of PVC lacquers and for polishing lacquers and finishes for the surface treatment of wooden furniture and articles. POLYTONE™ K-93 is also useful in heat seal coatings, primer and base coatings, gasoline resistant coatings, nail lacquers etc.

### Industrial Applications

- Flexographic Inks
- Gravure Inks
- Lamination Inks
- Ball Point Inks
- Lacquers
- Offset Inks
- PU-systems
- Nitro Cellulose Paints
- Varnishes
- Heat Seal Coating
- Primer and Base Coatings
- Gasoline resistant coatings
- Nail Lacquers and many more

### Solubility

POLYTONE™ K – 93 is soluble in alcohols (not in methanol), ketones, esters, glycol ether acetates, as well as in some aromatic & chlorinated hydrocarbons. They are however not soluble in water and in aliphatic hydrocarbons.

### Compatibility

POLYTONE™ K – 93 is compatible with different types of nitrocellulose, benzyl cellulose, ethyl cellulose, cellulose acetate, polyvinyl chloride, chlorinated rubber, as well as in many synthetic resins e.g. alkyd resins, phthalic resins, UF resins, polyvinyl butyryl resins, polyamide, phenol formaldehyde condensation resins etc and a multitude of plasticizers.

### Packaging

Available in 25 Kg bags

### Shelf Life

Store under cool dry conditions. It is recommended that the material be used within 12 months from the date of manufacture.