	TECHNICAL DATA SHEET	TDS 047		
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RESIDHERE ES 90 SD

Stabilized gum rosin modified with glycerol. Deodorized ester gum.


VERIFICATIONS			
Characteristics	UN	Specification	Method
Color Gardner	-	5 max.	ML SC 006
Acid Number	mgKOH/g	10 max.	ML SC 001
Softening Point (Ring and Ball)	°C	80 – 95	ML SC 002
Solubility	-	-	-
* Acetates, Aliphatic Hydrocarbons, Aromatic Hydrocarbons, Drying oil	-	Soluble	ML SC 012
* Alcohols	-	Insoluble	ML SC 012

* The sporadic analyzed parameters above do not characterize the product and should be taken only as reference.

APPLICATIONS
<input checked="" type="checkbox"/> Hot-melt, PSA, glues and adhesives in general; <input checked="" type="checkbox"/> Depilatory waxes, tapes and adhesive papers; <input checked="" type="checkbox"/> Rubber compounds (as replacement for hydrocarbon resin).

BENEFITS
<input checked="" type="checkbox"/> Excellent tack; <input checked="" type="checkbox"/> Promotes thermal stability and oxidation resistance; <input checked="" type="checkbox"/> Improves high gloss and fast drying.

PACKAGING		
Type	Size	Shelf life
Paper bags (Flakes)	25 Kg	12 months

DISCLAIMER
 <p>To prevent accidents and environmental impacts, please check the product SDS. We request our customers to test our products before using them on industrial scale. Due to the thermoplastic behavior, pastillated and flaked resins may fuse, block or lump. This can be accelerated under any of the following conditions:</p>

1) above 25°C temperature 2) prolonged storage 3) pressure, e.g., stacking pallets, or a combination of these conditions.

This is particularly applicable for low softening point resin grades. In order to maintain the flake or pastille shape, we therefore recommend storing the material in a temperature-controlled area; be careful with stacking material or applying pressure and preventing prolonged storage. It should be noted that lumping does not have a negative impact on the product specifications. Due to the nature of the product, claims regarding lumping cannot be accepted. Resins are prone to gradual oxidation, some more so than others. This could result in darkening and/or it could have an adverse effect on the solubility of the resin in organic solvents or on its compatibility with polymers. Accordingly, it is recommended that strict control of inventory be observed at all times, taking care that the oldest material is used first. The user of our products bears the responsibility of determining their suitability for a particular application or formulation or determining that the products or their use do not infringe any intellectual property. We do not assume any responsibility or warranty, expressed or implied, resulting from handling, usage and storage whether performed according to the instructions contained in this document, whether used alone or in combination with other products.

The buyer assumes all responsibility and liability for loss or damage arising from the handling and use of our products, either alone or in combination with other products.

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