



# Struktol Company of America

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# TECHNICAL DATA

## **STRUKTOL<sup>®</sup> 40 MS Flakes, 60 NS Flakes** **HOMOGENIZING AGENTS**

### **COMPOSITION**

- 40 MS Flakes**                      Mixture of dark aromatic hydrocarbon resins.
- 60 NS Flakes**                      Mixture of light-colored aliphatic hydrocarbon resins.

<b>PROPERTIES</b>	<b>40 MS Flakes</b>	<b>60 NS Flakes</b>
Appearance	dark brown pastilles	amber-colored pastilles
Ash Content (% , max.)	2	2
Softening Point (°C)	96-106	95-105
Specific Gravity	1.06	0.97
Physiological Behavior	refer to safety data sheet	
Storage Stability	At least 2 years under the following storage conditions: It is recommended that material not be stored at temperatures above 95°F. Care must be taken not to double stack since the additional pressure will cause storage stability problems. In addition, as with all resins, the material should be used on a first-in, first-out basis.	
Packaging	25 kg. PE bags	25 kg. PE bags

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### **RECOMMENDATIONS FOR APPLICATION**

STRUKTOL<sup>®</sup> homogenizing agents improve the homogeneity of elastomers of different polarity and viscosity. They are rapidly absorbed by the polymers during the mixing cycle. A relatively low viscosity mass is quickly achieved into which other compounding ingredients can easily be incorporated. The homogenizing agents are particularly effective with those elastomer blends, which tend to crumble at the beginning of the mixing cycle. The softening viscous resins wet the surface of the crumbs promoting the formation of a compact mass.

The reduction of compound viscosity and "nerve" achieved with STRUKTOL<sup>®</sup> homogenizing agents assist further processing. For instance, bagging tendency can be reduced, extrusion rates are increased without increasing the die swell, and calendaring properties are improved. These benefits are retained even after long storage periods of the green compounds.

STRUKTOL<sup>®</sup> homogenizing agents increase the green tack of many compounds although strictly they are not tackifiers. They do, however, boost the efficiency of other tackifying agents.

STRUKTOL<sup>®</sup> homogenizing agents do not harden during vulcanization. The hardness of the vulcanizate is not reduced as much as when using, for example, mineral oil plasticizers.

Because of its color, STRUKTOL<sup>®</sup> 40 MS Flakes is not suitable for light colored compounds. Staining may occur under certain conditions. Where non-staining is specified, STRUKTOL<sup>®</sup> 60 NS Flakes should be used.

In most cases, the homogenizing agents are added to the polymers within the mixing cycle.

STRUKTOL<sup>®</sup> 40 MS Flakes and STRUKTOL<sup>®</sup> 60 NS Flakes have good solubility in aromatic and chlorinated hydrocarbons.

### **DOSAGE**

4 - 15 phr

(07/08/03)rca

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