



# STRUKTOL® TR 121

**SLIP AGENT / LUBRICANT / DISPERSANT / MOLD RELEASE AGENT**

## **COMPOSITION**

Unsaturated fatty primary amide derived from oleic acid.

<b>PROPERTIES</b>	<b>TYPICAL VALUES</b>
Product Form	Pastille
Acid Value (max.)	3
Amide Content (%) (min.)	98.0
Gardner Color (max.)	5
Iodine Value	80 - 95
Melting Point (°C)	68 - 78
Physiological Behavior	Refer to safety data sheet
Storage Stability	At least 2 years under normal storage conditions
Packaging	55 lb. PE bag / 2,200 lb. skid 25 kg. PE bag / 1,000 kg. skid

## **RECOMMENDATIONS FOR APPLICATION**

One of the major uses of STRUKTOL® TR 121 (oleamide) is as a slip agent in polyethylene films. It functions by migrating to the film surface in a microscopic coating which reduces the coefficient of friction. In general, oleamide migrates more rapidly than erucamide (STRUKTOL® TR 131) but has lesser heat stability. Where this is not a disadvantage, oleamide costs are inherently lower.

This same property of uniform surface bloom permits STRUKTOL® TR 121 to be used in injection molding applications. It functions as both a lubricant and mold release agent. These properties are valuable in processing thermoplastic resins, thermoplastic elastomers (TPEs) and thermoset rubber systems. STRUKTOL® TR 121 may also function as a dispersant in concentrates by providing easier and more uniform letdown of the concentrated material. STRUKTOL® TR 121 is insoluble in water and has limited solubility in alcohols, ketones and aromatic solvents.

## **ADDITION LEVELS**

Applications in the rubber area normally require 1 - 3 phr loading levels.

For plastics, these loadings may vary from around 0.05% in films to more than 0.5% in mold release applications.

For PVC 0.05 - 0.6 %.

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