



Struktol Company of America

201 E. Steels Corners Road • P. O. Box 1649
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Phone (330) 928-5188 • Fax (330) 928-8726

TECHNICAL DATA

STRUKTOL[®] TR 121

**SLIP AGENT
LUBRICANT
DISPERSANT
MOLD RELEASE AGENT**

COMPOSITION

Unsaturated fatty primary amide derived from oleic acid.

PROPERTIES

Acid Value (max.)	3
Amide Content (%)	98
Appearance	Light cream colored pastilles or beads
Color (Gardner '63, max.)	4
Iodine Value (max.)	90
Melting Point (°C)	66 - 72
Physiological Behavior	Refer to safety data sheet
Storage Stability	At least 2 years under normal storage conditions
Packaging	55 lb. PE bags

RECOMMENDATIONS FOR APPLICATION

One of the major uses of 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.

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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%.

FDA STATUS

STRUKTOL[®] TR 121 is sanctioned for use by the Food and Drug Administration (FDA) in a number of applications, listed in the following sections of Title 21 of the Code of Federal Regulations:

175.105 Adhesives

175.300 Resinous and polymeric coatings
(can and cements)

178.3910 Surface lubricants used in the
manufacture of metallic articles

179.45 Packaging materials for use during the
radiation preservation of prepackaged
foods

181.28 Release agents