



# Struktol Company of America

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# TECHNICAL DATA

## **STRUKTOL® TR 045**

**PROCESSING ADDITIVE  
COMPOUNDING AID**

### **COMPOSITION**

Oleochemical derivative with no metal ions.

### **PROPERTIES**

Acid Value (max.)	20
Appearance	light tan beads
Dropping Point (°C)	76 - 90
Specific Gravity	0.98
Physiological Behavior	refer to safety data sheet
Storage Stability	at least 2 years under normal storage conditions
Packaging	25 kg. PE bags

### **RECOMMENDATIONS FOR APPLICATION**

STRUKTOL® TR 045 is a fatty acid based additive designed to maximize the wetting to both a polar filler and a non-polar polymer. By wetting both surfaces, this material allows a quicker incorporation of additives into the polymer matrix decreasing mixing times, melt temperatures and viscosity.

The product contains no metal soaps and may be used where these are unacceptable. The acid value is quite low, so this compound may also be used where stearic acid is a problem. Specific viscosity improvements have been seen with high impact polystyrene (HIPS).

### **ADDITION LEVELS**

Depending on polymer and other additives, from 0.1% in PE to 1.0% or higher in HIPS.

### **FDA STATUS**

STRUKTOL® TR 045 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	177.1200	Cellophane
175.300	Resinous and polymeric coatings	177.1580	Polycarbonate resins
176.170	Components of paper and paperboard in contact with aqueous and fatty foods	177.2420	Polyester resins, cross-linked
176.210	Defoaming agents used in the manufacture of paper and paperboard	178.2010	Antioxidants and/or stabilizers for polymers

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