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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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