



# Struktol Company of America

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# TECHNICAL DATA

## STRUKTOL® RP 11

### PROCESSING ADDITIVE

#### COMPOSITION

Proprietary blend of fatty acid derivatives.

<b>PROPERTIES</b>	<b>TYPICAL VALUES</b>
Appearance	White to off white pastille
Melting point (°C)	50 - 60
Specific Gravity	1.01
Storage Stability	At least 2 years under normal storage conditions
Packaging	50 lb. bag

#### RECOMMENDATIONS FOR APPLICATION

STRUKTOL® RP 11 is designed as a processing aid and mold release, and works especially well in polypropylene to modify viscosity. We recommend using a stock temperature of ~190°C during processing.

#### DOSAGE

Refer to page 2.

#### FDA STATUS

STRUKTOL® RP 11 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:

- |  |   |
|--|---|
| <b>175.105</b> Indirect food additives – adhesives and components of coatings. | <b>176.200</b> Indirect food additives – Defoaming agents used in coatings. |
| <b>175.210</b> Acrylate ester copolymer coating.                               | <b>177.2420</b> Polyester resins – cross-linked.                            |
| <b>175.300</b> Resinous and polymeric coatings.                                | <b>177.2600</b> Rubber articles intended for repeated use.                  |

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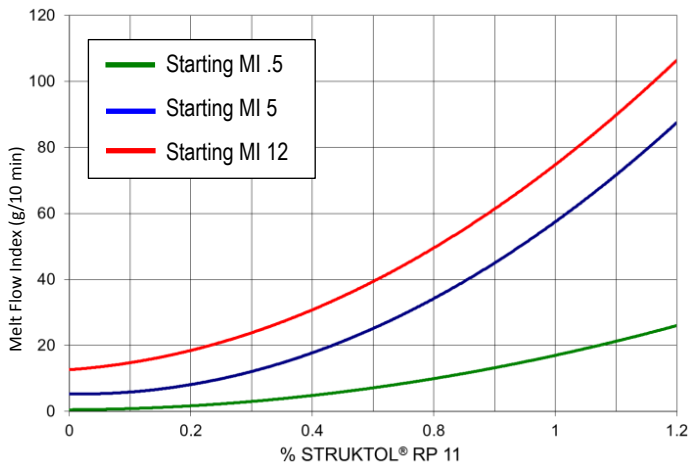
## ENGINEERED ADDITIVE FOR CONTROLLED POLYPROPYLENE VISCOSITY MODIFICATION

**Struktol Company of America** has developed STRUKTOL® RP 11, a unique additive designed for polypropylene that provides controlled viscosity suppression as well as metal release characteristics.

- Supplied in an easily handled pastille form
- Can be added during compounding or at the molding machine
- Easily fine tune melt flow rate with adjusted loading levels
- Eliminate multiple melt flow rate stocks
- Excellent for recycle applications

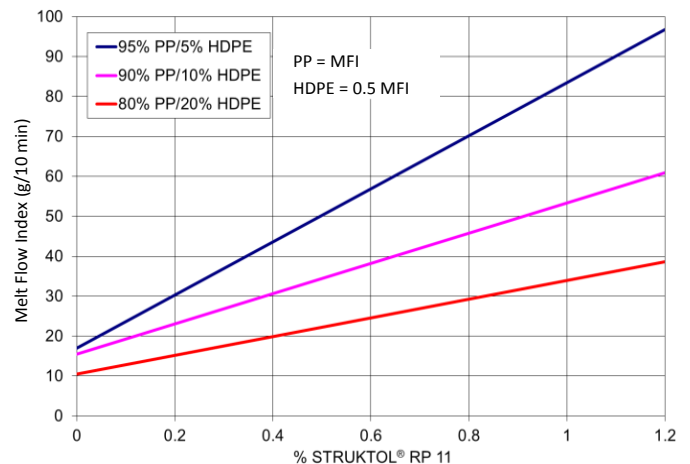
### STRUKTOL® RP 11 in Polypropylene

In polypropylene, no matter what the starting melt flow rate, adding STRUKTOL® RP 11 will allow you to fine tune your resin or compound to get the desired lower viscosity without sacrificing physical properties:



### STRUKTOL® RP 11 in Recycled or Reclaim Applications

Even in recycled or reclaim applications where there might be multi-material components such as a polyethylene/polypropylene mixture, STRUKTOL® RP 11 can still provide a desired viscosity modification:



### STRUKTOL® RP 11 Effects on Physical Properties

Nominal 5 MFI HPP	Control HPP	0.4% RP 11	0.8% RP 11
MFI, g/10 min.	5.0	21.5	36.5
Notched Izod, ft-lb/in	2.8	2.8	2.6
Tensile Yield, psi	4,780	4,520	4,480
Elongation at Yield, %	5.3	5.6	4.9
Flex Modulus, kpsi	2	2.1	2.2
Gardner Impact, in-lb	8	64	40

Nominal 20 MFI HPP	Control HPP	0.4% RP 11
MFI, g/10 min.	19.8	41.3
Notched Izod, ft-lb/in	3.6	1.8
Tensile Yield, psi	4,200	4,410
Elongation at Yield, %	6.7	6.7
Flex Modulus, kpsi	1.7	2.1
Gardner Impact, in-lb	16	32

Contact Struktol to learn how our Intelligent Additive Solutions can improve your compound!

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