

ELASTOTECH C-BOOST

Melt Strength Enhancer for Recycled PE

A melt strength enhancer

specifically designed for use in the extrusion processing of HDPE and LDPE resins. It provides significant benefits in the production of both very thin films and thick sheets improving processability and material performance.

Elastotech C-Boost is also effective in compensating for the loss of melt strength in post-consumer recycled (PCR) or post-industrial recycled (PIR) compounds. This modifier is particularly suitable for applications that require critical melt stretching or deep drawing, including blow molding, blown and cast film, thermoforming, and extrusion sheet.

Elastotech C-Boost can be used by dry blending with resin, making it a simple and effective solution for enhancing melt strength during extrusion processes.

Properties

	Test Method	Unit	Value
Melt Flow (150oC/2.16 kg)	*See at note	g/10 min.	12.0
Density	ASTM D792	g/cm3	0.95

Noted : Melt flow rate test conditions are 150 °C, 2.16 kg and preheat without load for 90 sec.

FDA Statement

When used in food-approved Polyethylene at a level of 5% by weight, Elastotech C-Boost complies with EU Regulation 10/2011.



Applications



ELASTOTECH C-BOOST

VALUE PROPOSITION

Process	Type of PE	Properties			Performance
		MFR	Melt Strength	Mechanical	
Blow Molding	HDPE	Reduce	Improve	Improve -Tensile strength -Tensile modulus -Flexural strength -Flexural modulus -Impact strength -Shrinkage	●●●
Blow Molding	LDPE	Reduce	Improve	Improve -Tensile strength -Elongation at break -Tensile modulus	●●●
	LDPE : HDPE	Reduce	Improve	Improve -Tensile strength -Tensile modulus	●●
Injection	HDPE	Reduce	Improve	Improve -Tensile modulus -Flexural modulus -Impact strength -Shrinkage	●●
Extrusion Sheet and Thermoforming	HDPE	Reduce	Improve	Maintain -Tensile strength -Elongation at break -Tensile modulus	●●

●●● High Performance ●● Middle Performance

Blown Film Bubble Stability Improvement

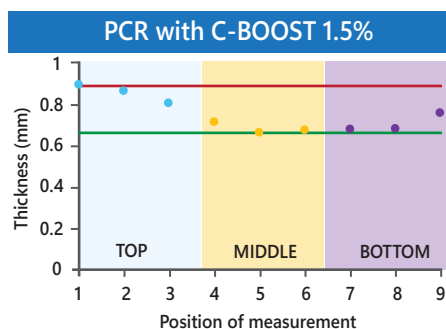
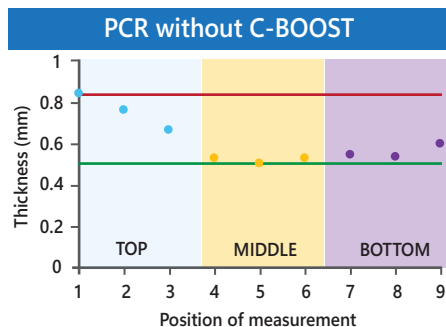


PCR LDPE without C-BOOST



PCR LDPE with 5% C-BOOST

Blow Molding Dimension Stability Improvement



Extrusion Sheet Melt strength Improvement



HDPE without C-BOOST



HDPE with 3% C-BOOST

Injection Modulus Improvement



Pallet Before Bending Improvement



Pallet After Bending Improvement

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