

EGDA-6888

HDPE Film Extrusion Resin

DESCRIPTION

EGDA-6888 is a high molecular weight, high density polyethylene copolymer that has been designed specifically for tubular film extrusion. Its broad molecular weight distribution and density have been optimized to give excellent bubble stability at high extrusion rates with high film strength and rigidity. The combination of high strength and excellent drawdownability makes EGDA-6888 ideal for down gauging in many applications.

APPLICATIONS

Tubular films produced from EGDA-6888 are recommended for high strength grocery sacks, shopping bags, produce bags and high quality thin films for multiwall sack liners and replacements for thin paper products. Films are nearly gel-free and have excellent treatability. They are ideally suited for printing of high quality graphics.

TYPICAL PROPERTIES

Properties	Units	Test Method	Typical Value
Resin Properties			
Melt Flow Index, I _{21.6}	g/10 min	ASTM D 1238	10
Density at 23°C	g/cm ³	ASTM D 1505	0.952
Melting Point	°C	EQUATE	131
Bulk Density	kg/m ³	ASTM D 1895	560
Blown Film Properties* at 13 microns			
Dart Impact, F ₅₀	g	ASTM D 1709 A	150
Elmendorf Tear	MD	ASTM D 1922	70
	TD		150
1% Secant Modulus	MD	ASTM D 882	1050
	TD		1100
Tensile Strength @ Break	MD	ASTM D 882	52
	TD		64
Elongation	MD	ASTM D 882	350
	TD		500

* Film properties are typical of blown films extruded at a 4:1 blow-up ratio and melt temperature of 215°C.
ASTM: American Society for Testing and Materials

EXTRUSION CONDITIONS

EGDA-6888 can be extruded on conventional HDPE blown film equipment at 215°C melt temperature. A flat or moderately increasing temperature profile is recommended for its extrusion.

A 4:1 blow-up ratio and high stalk bubble configuration are always recommended for products requiring high strength. Lower blow-up ratios (3:1) can be used for products that do not require high strength.

For best gauge uniformity, a minimum extrusion rate of 0.14 kgs/hr/mm of die circumference is recommended. The best balance of extrudability and film strength is obtained with a 1.0 to 1.1 mm die gap.

FOOD CONTACT USAGE

EGDA-6888 can be used for all food contact applications including holding food during cooking. It conforms to US FDA Regulation 21 CFR 177.1520 as well as EC Directive 90/128/EEC and its amendments to-date. Food contact suitability certificate is available upon request.

AVAILABILITY

EGDA-6888 is supplied in 25-Kg bags in secured pallets of 55 bags (1.375 MT net). It is also supplied in sea bulk containers of up to 15 MT capacity.



STORAGE AND HANDLING

EGDA-6888 is supplied in pellet form and is readily conveyed on conventional polyethylene bulk handling equipment. The bulk handling system should be designed to prevent accumulation of fines and dust particles that can pose an explosion hazard. Ensure all equipment is properly grounded. The product should be stored in a cool dry shaded area away from dust, sunlight and heat. For more details on storage and handling see our Polyethylene Storage and Handling Guide. Also carefully review the Material Safety Data Sheet supplied with this product for health, safety and waste considerations.

IMPORTANT NOTICE

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