

EQUATE PE EGDA-6888

High Density Polyethylene Copolymer

EQUATE Petrochemical Company KSCC

Technical Data

Product 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.

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.

General

Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet (English)		
Availability	• Africa & Middle East	• Asia Pacific	• Europe
Features	• Copolymer • Excellent Printability • Good Drawdown	• Good Stability • High Density • High Molecular Weight	• High Rigidity • High Strength • Wide Molecular Weight Distribution
Uses	• Bags	• Film	• Liners
Agency Ratings	• EU 90/128/EEC	• FDA 21 CFR 177.1520	
Forms	• Pellets		
Processing Method	• Blown Film	• Film Extrusion	

Physical	Nominal Value Unit	Test Method
Density ³	0.952 g/cm ³	ASTM D1505
Bulk Density	560 kg/m ³	ASTM D1895
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	10 g/10 min	ASTM D1238

Films	Nominal Value Unit	Test Method
Film Thickness - Tested	13 µm	
Secant Modulus		ASTM D882
1% Secant, MD: 13 µm, Blown Film	1050 MPa	
1% Secant, TD: 13 µm, Blown Film	1100 MPa	
Tensile Strength		ASTM D882
MD: Break, 13 µm, Blown Film	52.0 MPa	
TD: Break, 13 µm, Blown Film	64.0 MPa	
Tensile Elongation		ASTM D882
MD: Break, 13 µm, Blown Film	350 %	
TD: Break, 13 µm, Blown Film	500 %	
Dart Drop Impact (13 µm, Blown Film)	150 g	ASTM D1709A
Elmendorf Tear Strength		ASTM D1922
MD: 13.0 µm	70.0 kN/m	
TD: 13.0 µm	150.0 kN/m	

Thermal	Nominal Value Unit	Test Method
Melting Temperature	131 °C	Internal Method

Extrusion	Nominal Value Unit
Melt Temperature	215 °C

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ 23°C