

Lucalen G3710E



Tie-Layer, HDPE

Product Description

Lucalen G3710E is a maleic anhydride grafted polyethylene resin with a high thermal stability and good flexibility. Lucalen G3710E is primarily designed to be used as the adhesive layer between the top coat polyethylene and the epoxy layer in a 3-layer coating system with easy processing characteristics. Lucalen G3710E is available in pellet form.

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Australia and New Zealand; Europe; North America
Application	Coatings, Protective; Pipe Coating
Market	Industrial, Building & Construction; Pipe
Processing Method	Extrusion Coating
Attribute	Copolymer; Good Adhesion; Good Heat Aging Resistance; Good Thermal Aging Resistance; Good Thermal Stability; High Heat Resistance

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	1.5	g/10 min	ISO 1133-1
Density	0.931	g/cm ³	ISO 1183-1
Bulk Density	> 0.5	g/cm ³	ISO 60
Mechanical			
Tensile Modulus	400	MPa	ISO 527-1, -2
Tensile Stress at Yield	12.0	MPa	ISO 527-1, -2
Tensile Strain at Break	> 700	%	ISO 527-1, -2
Film			
Water Content	<=0.1	%	ISO 15512
Hardness			
Shore Hardness, (Shore D)	51		ISO 868
Thermal			
Vicat Softening Temperature, (A/50 N)	>= 100	°C	ISO 306
Low Temperature Brittleness	< -70	°C	ASTM D746
Melting Temperature	125	°C	ISO 11357-3
Additional Information			
Peel Strength			
(23 °C)	> 200	N/cm	DIN 30670
(80 °C)	> 40	N/cm	DIN 30670

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- (i) U.S. FDA Class I or II Medical Devices; Health Canada Class I, II or III Medical Devices; European Union Class I or II Medical Devices;
- (ii) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned medical devices;
- (iii) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration;
- (iv) tobacco related products and applications, electronic cigarettes and similar devices.

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- (ii) applications involving permanent implantation into the body;
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