

# Lucalen G3710E

Polyethylene  
LyondellBasell Industries

Message:

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.

General Information			
Features	Copolymer		
	Good Adhesion		
	Good Flexibility		
	Good Heat Aging Resistance		
	Good Processability		
	Good Thermal Aging Resistance		
	Good Thermal Stability		
Uses	Adhesives		
	Coating Applications		
	Pipe Coatings		
	Protective Coatings		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Extrusion Coating		
Physical	Nominal Value	Unit	Test Method
Density	0.931	g/cm <sup>3</sup>	ISO 1183
Apparent Density	> 0.50	g/cm <sup>3</sup>	ISO 60
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.5	g/10 min	ISO 1133
Water Content	< 0.10	%	ISO 15512
Peel Strength			DIN 30670
23°C	> 20.0	kN/m	
80°C	> 4.0	kN/m	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	51		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	400	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	12.0	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	> 700	%	ISO 527-2/50
Thermal	Nominal Value	Unit	Test Method

Brittleness Temperature	< -56.7	°C	ASTM D746
Vicat Softening Temperature	> 100	°C	ISO 306/A50
Melting Temperature (DSC)	125	°C	ISO 3146
Extrusion	Nominal Value	Unit	
Melt Temperature	215 to 240	°C	

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#### Recommended distributors for this material

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