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Polyethylene Aceso® PEM 1870

Refining & Chemicals
Polymers

Technical data sheet
Low Density Polyethylene Medical
Produced in Europe

Description

Aceso® PEM 1870 is a low density polyethylene made by a high pressure autoclave process without antioxidant. This grade is particularly suitable for the coating of paper, paperboard or aluminium as well as for the injection moulding process.

Aceso® PEM 1870 has been specifically designed for the manufacture of healthcare products and pharmaceutical packaging. However it is recommended to contact your local sales representative to obtain specific information and individual certificates regarding compliance to regulations.

Application examples: coating of paper, paperboard, aluminium.

Characteristics

Property	Method	Unit	Typical value
Density	ISO 1183	g/cm³	0.918
Melt Flow Rate (190°C/2.16 kg)	ISO 1133	g/10 min	7.5
Melting temperature	ISO 11357	°C	108
Vicat temperature	ISO 306	°C	90

Values indicated are typical for this product. Density and MFR are properties routinely measured during “the standard quality control procedure”. The other figures are generated by tests not included in the "standard quality control procedure", and are given for information only. Data are not intended for specification purposes.

Processing

Temperature profile for extrusion coating: 200-320 °C
Die melt temperature: 260-320°C

Mechanical properties

Property	Method	Unit	Typical value (*)
Tensile Strength at Yield	ISO 527-2	MPa	9
Tensile Strength at Break	ISO 527-2	MPa	12
Elongation at Break	ISO 527-2	%	450
Modulus of Elasticity	ISO 527-2	MPa	170

(*) Figures stated hereabove are measured on a moulded plate.