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Refining & Chemicals
Polymers

Polyethylene Lumicene® Supertough 32AST05

Technical data sheet
Metallocene Polyethylene BLOWN FILM
Produced in Europe

Description

Lumicene® Supertough 32AST05 is a metallocene polyethylene blown film grade that is especially designed to have an excellent processability on extrusion and conversion lines and to give a very high toughness – stiffness balance allowing new innovative multilayer film concepts. Thanks to this innovative design, Lumicene® Supertough 32AST05 brings a huge down-gauging potential in the film market.

Lumicene® Supertough 32AST05 does not contain any Polymer Processing Aid based on Perfluoroalkyl Substance (PFAS)

Characteristics

Property	Method	Unit	Typical value (*)
Density	ISO 1183	g/cm ³	0.931
Melt Flow Rate (190°C/2.16 kg)	ISO 1133	g/10 min	0.5
Melting temperature	ISO 11357	°C	123
Vicat temperature	ISO 306	°C	115

(*) Values indicated are typical for this product. Density and MFR are 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.

Blown film properties

These values have been measured on a 40 µm blown film in low neck configuration.

Property	Method	Unit	Typical value (*)
Tensile Strength at Yield MD/TD (**)	ISO 527-3	MPa	15.5/16
Tensile Strength at Break MD/TD (**)	ISO 527-3	MPa	57/48
Elongation at Break MD/TD (**)	ISO 527-3	%	576/633
Elmendorf MD/TD (**)	ISO 6383-2	N/mm	55/200
Dart test	ISO 7765-1	g	280
Haze	ISO 14782	%	14
Gloss 45°	ASTM D2457		50

(*) Figures stated hereabove are obtained using laboratory test specimens produced with the following extrusion conditions: 45 mm screw diameter, L/D = 30, die diameter = 120 mm, die gap = 1.4 mm, BUR = 2.5:1, temperature = 210 °C.

Information contained in this publication is true and accurate at the time of publication and to the best of our knowledge. The nominal values stated herein are obtained using laboratory test specimens. These are typical values not to be construed as specification limits. Before using one of the products mentioned herein, customers and other users should take all care in determining the suitability of such product for the intended use. Unless specifically indicated, the products mentioned herein are not suitable for applications in the pharmaceutical or medical sector. The Companies within TotalEnergies Petrochemicals do not accept any liability whatsoever arising from the use of this information or the use, application or processing of any product described herein. No information contained in this publication can be considered as a suggestion to infringe patents. The Companies disclaim any liability that may be claimed for infringement or alleged infringement of patents.

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Polyethylene





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