



TotalEnergies

Refining & Chemicals
Polymers

Polyethylene Lumicene® mPE M 3421 UV

Technical data sheet
Metallocene Polyethylene ROTOMOULDING
Produced in Europe

Description

Lumicene® mPE M 3421 UV is a second generation metallocene medium density polyethylene (mMDPE) with hexene as comonomer.

Lumicene® mPE M 3421 UV is intended for the manufacture of rotomoulded items.

Its specific molecular structure ensures :

- Superior mechanical properties
- Improved dimensional stability
- Easy processing

Lumicene® mPE M 3421 UV is a natural grade available in pellets form.

Characteristics

Property	Method	Unit	Typical value (*)
Density	ISO 1183	g/cm ³	0.935
Melt Flow Rate (190°C/2.16kg)	ISO 1133/D	g/10min	2.7
Vicat Softening Point	ISO 306	°C	120
Melting Point	ISO 11357	°C	123
Tensile Strength at yield	ISO 527-2	MPa	18
Tensile Strength at break	ISO 527-2	MPa	30
Elongation Strength at yield	ISO 527-2	%	12
Elongation Strength at break	ISO 527-2	%	> 800
Flexural Modulus	ISO 178	MPa	590
Impact Properties on 1.5mm rotomoulded sample	ISO 6602-3	J	Total Energy > 9.0
Impact Properties on 1.5mm rotomoulded sample	ISO 6602-3	J	Max Energy > 5.0
ESCR (10 % antrox)	ASTM D1693B	h	F50 > 300

(*) Data not intended for specification purposes

Handling and storage

Please refer to the safety data sheet (SDS) for handling and storage information. It is advisable to convert the product within one year after delivery provided storage conditions are used as given in the SDS of our product. SDS may be obtained from the website: www.polymers.totalenergies.com.

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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