



TotalEnergies

Refining & Chemicals
Polymers

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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 % antarox)	ASTM D1693B	h	F50 > 300

(*) Data not intended for specification purposes

Polyethylene