Lumicene® mPE M3421UV

Refining & Chemicals
Polymers

Technical Data Sheet
Specialty Compounds
Polyethylene Rotational Moulding
Produced in Europe

Description

Lumicene® mPE M3421UV is a new generation metallocene Medium Density Polyethylene (mMDPE) with hexene as comonomer.

Lumicene® mPE M3421UV is intended for the manufacture of rotomoulded items and available in natural or in colour, in pellets or in powder (under brandname Lumicene® mPE M3423UV).

Main Characteristics

Its specific molecular structure ensures:

- ✓ Superior mechanical properties
- ✓ Improved dimensional stability
- ✓ Easy processing
- ✓ Low sagging
- ✓ UV-protected

Application

Suitable for monolayer and multi-layer with foam technology.

Properties

Property	Method	*Unit*	Typical value (*)
Density (**)	ISO 1183	*g/cm³*	**0.934**
Melt Flow Rate *(190°C-2.16kg)*	ISO 1133/D	*g/10min*	**2.7**
Melting Temperature	ISO 11357	*°C*	**122**
Vicat Softening Point *(Method A50)*	ISO 306	*°C*	**118**
Heat Deflection Temperature *(Method B)*	ISO 75	*°C*	**73**
Tensile modulus	ISO 527	*MPa*	**590**
Tensile strength @yield	ISO 527	*MPa*	**18**
ESCR *(10% Igepal)*	ASTM D1693	h (F50)	**> 1000**

(*) Data not intended for specification purposes *(**) Based on natural resin*

Processing conditions

It is recommended to keep product dry prior use for production.

Handling and storage

Please refer to the material safety data sheet (MSDS) 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 MSDS of our product.
MSDS may be obtained from the website: http://www.polymers.total.com/

Specialty Compound

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