

POLYETHYLENE mPE M 3421 UV

Technical data sheet
Provisional Technical Data Sheet
metallocene Medium and High Density Polyethylene
ROTOMOULDING

DESCRIPTION >>

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

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

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

CHARACTERISTICS >>

Property	Method	Unit	Requirements	Value
Density	ISO 1183	g/cm ³		0.934
Melt index ^{2.16 kg}	ISO 1133	dg/min		2.7
Vicat Softening Point	ISO 306	°C		120
Melting Point	ISO 11357-3	°C		123
Tensile Strength	ISO 527-2	MPa		
at yield				18
at break				30
Elongation Strength	ISO 527-2	%		
at yield				12
at break				> 800
Young Modulus	ISO 178	MPa		590
Impact Properties on 1.5 mm rotomoulded sample		J		
Total Energy			ISO 6602-3	> 9.0
Max Energy			ISO 6602-3	> 5.0
ESCR (10 % ant.)	ASTM D1693-70	h		F50 > 300

DISCLAIMER

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. 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 TOTAL 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.



TOTAL PETROCHEMICALS RESEARCH FELUY
Polyethylene Technical Services
Zone Industrielle C
B-7181 Feluy
Belgium

Technical data sheet - mPE M 3421 UV • Page 2

Last updated: //
Contact: Isabelle Di Silvestro
Email: felr-pe-ts-d@total.com
Web : www.polyethylene.totalpetrochemicals.biz