

MATERIAL DECLARATION

Product: PE-HD LITEN VB 33

We certify that this product fulfils the requirements of European Pharmacopoeia 8, capture 3.1.3 Polyolefines.

Test results:

Parameter	Value obtained	Requirements of Ph. Eur. 8
FTIR identification	HDPE	Linear Polyethylene (confirmation)
Purity tests		
Appearance of solution S1	clear, colourless	clear, colourless
Acidity or alkalinity	0,12 ml ± 0,02 ml 0,24 ml ± 0,03 ml	max. 1,5 ml of 0,01 M NaOH max. 1,0 ml of 0,01 M HCl
Absorbance	0,001	from 220 to 340 nm max. 0,2
Reducing substances	0,05 ml ± 0,01 ml	the difference between the titration volumes is not more than 3,0 ml
Substances soluble in hexane	0,24 % ± 0,01 %	max. 5 %
Extractable aluminium	below 0,25 ppm	max. 1 ppm
Extractable titanium	below 0,25 ppm	max. 1 ppm
Extractable zinc	below 0,1 ppm	max. 1 ppm
Extractable heavy metals	below 2,5 ppm	max. 2,5 ppm
Sulphated ash	0,019 % ± 0,001 %	max. 1,0 %

QMS of UNIPETROL RPA, s.r.o. has been approved by LRQA according to ISO 9001:2008.

Certified for UNIPETROL RPA by:

Jiří Haifler

UNIPETROL SERVICES, s.r.o., HSE&Q dpt., CZ-43670 Litvínov

E-mail: jiri.haifler@unipetrol.cz

2014-01-20

Disclaimer:

Ultimately customers must make their own determination that their use of our product is safe, lawful and technically suitable in their intended applications.

No liability can be accepted in respect of the use of UNIPETROL RPA' products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.