



**TotalEnergies**

Refining & Chemicals  
Polymers

**M3583UV Black**

Technical data sheet – Issue 2  
Polyethylene  
Produced in Europe

## Description

M3583UV Black is a new generation Medium Density Metallocene Polyethylene with hexene as comonomer. M3583UV Black is intended for the manufacture of rotomolded items and available in black powder.

Its specific molecular structure ensures:

- ✓ Superior mechanical properties
- ✓ Improved dimensional stability
- ✓ Easy processing
- ✓ High ESCR
- ✓ UV protected

Suitable to produce Diesel Fuel Tanks (TÜV ECE R34) & technical parts.

## Characteristics

	Method	Unit	Typical Value
<b>Rheological properties</b>			
Melt Flow Index 190°C/2.16 kg	ISO 1133-1	g/10 min	6,0
<b>Mechanical properties</b>			
Tensile strength at yield	ISO 527	MPa	17
Elongation at Break	ISO 527	%	> 700
Flexural Modulus	ISO 178	MPa	700
<b>Thermal properties</b>			
Melting Temperature	internal method	°C	123
Vicat Softening point A50 (10N, 50°C/h)	ISO 306	°C	121
<b>Stress Cracking</b>			
Bell ESCR (10% Igepal)	ASTM D 1693	F50 in hours	> 250
<b>Other physical properties</b>			
Density	ISO 1183	g/cm <sup>3</sup>	0,937

## 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 your technical service contact on request

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