



TotalEnergies

Refining & Chemicals
Polymers

TP-SEAL® M4741 UV Black

Technical data sheet – Issue 5
Polyethylene
Produced in Europe

Description

TPSeal® M4741 UV Black is a new generation High Density Metallocene based Polyethylene with hexene as comonomer. TPSeal® M4741 UV Black is intended for the manufacture of rotomolded items and is available in black powder.

Its specific molecular structure ensures:

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

Suitable to produce tanks, underground tanks, technical parts, diesel fuel tanks.

Characteristics

	Method	Unit	Typical Value
Rheological properties			
Melt Flow Index 190°C/2.16 kg	ISO 1133-1	g/10 min	4,0
Mechanical properties			
Tensile Modulus – True Stress / True Strain Rotomolded sample	Internal method	MPa	1025
Thermal properties			
Melting Temperature	internal method	°C	128
Heat Deflection Temperature 0,45 MPa - 120°C per hour	ISO 75-2	°C	70
Vicat Softening point A50 (10N, 50°C/h)	ISO 306	°C	120
Bell ESCR (10% Igepal)	ASTM D 1693	F50 in hours	> 1000
FNCT (10% Caflon NP9)	ISO 16770 at 50°C 3,0 MPa	hours	700
Other physical properties			
Density (of the natural material)	ISO 1183	g/cm³	0,947

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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