

Description

TPSeal® M4743 UV Black is a new generation High Density Metallocene Based Polyethylene with hexene as comonomer. TPSeal® M4743 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/cm ³	0,947