

HD eco-tech® RM 10440 UV

Technical data sheet
mMDPE

Description

HD eco-tech® RM 10440 UV is a new generation metallocene medium density polyethylene with hexane as comonomer and contains an excellent antioxidants and UV stabilization package. Designed for rotational moulding applications. Products produced with HD eco-tech® RM 10440 UV show outstanding optical properties (gloss).

Application

Large tanks (water, diesel and chemicals). TÜV approval for diesel tanks.
IBC's, manholes and technical parts
Marine products (canoes, kayak and boats),

Characteristics

	Test method	Parameter	Value	Unit
Physical properties				
Melt Flow Index	ISO 1133/D	190 °C/ 2,16 kg	4	g/10 min
Density	ISO 1183	23 °C	0,940	g/cm ³
Thermal properties				
Vicat Softening Point	ISO 306		126	°C
Mechanical properties				
Tensile strength at yield	ISO 527-2	50 mm/min	21	MPa
Tensile strength at break	ISO 527-2	50 mm/min	21	MPa
Elongation Strength at yield	ISO 527-2	50 mm/min	11	%
Elongation Strength at break	ISO 527-2	50 mm/min	800	%
Flexural Modulus	ISO 178	2,8 mm/min	730	MPa
Notched Charpy Impact Resistance	ISO 179-1	+ 23°C	>150	kJ/m ²
Notched Charpy Impact Resistance	ISO 179-1	- 30°C	>150	kJ/m ²
ESCR-1	ASTM D1693	50 °C / 10 % AntaroX	450	h
ESCR-2	ASTM D1693	50 °C / 100 % AntaroX	>1000	h

Available as

Microgranules, Granules, Powder
Natural, Black and Colour compounds

Packaging

25 kg bags / pal. à 1375 kg (microgranules)
20 kg bags / pal. à 1200 kg (powder)
25 kg bags / pal. à 1375 kg (granules)
1000 kg big bags (microgranules and granules)

Processing recommendations

Suggested processing temperature 200 – 280 °C, depending on size and wall thickness of end product and the residence time in the mould.

The information and recommendations contained in this document are based upon data collected and present state of knowledge and are believed to be reliable and accurate. They do not however, exempt the customer from performing his own test to determine the suitability of the products supplied for the intended purpose.

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HD Kunststoffe is member of
Association of Rotational Moulding
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