

# Ultrapolymers HDPE

## UP203 Natural Powder

Polyethylene for Rotational Moulding, linear high-density



### Description:

**UP203 Natural Powder** is a new generation hexene linear high-density polyethylene for rotational moulding based on **Lupolen 4021 K RM**.

Typical customer applications include agricultural and chemical storage containers and underground infrastructure applications. This product exhibits excellent ESCR and high impact strength at low temperatures. **UP203 Natural Powder** is fully heat and UV stabilised resulting in good processing latitude, good colour retention and long life expectancy.

**UP203 Natural Powder** is not intended for use in medical- and pharmaceutical applications.

Physical Properties		Test method	Typical Value*	Unit
Melt flow index	190 °C/2.16 kg	ISO 1133	4.0	g/10 min
Density	23 °C	ISO 1183	0.9395	g/cm <sup>3</sup>
Tensile modulus	23 °C	ISO 527-1,-2	750	Mpa
Tensile stress at yield	23 °C	ISO 527-1,-2	19	Mpa
Tensile Impact Strength	Notched @ - 30 °C	ISO 8256	120	kJ/m <sup>2</sup>
	Notched @ 23 °C	ISO 8256	265	kJ/m <sup>2</sup>
Tensile Strain at break	23 °C	ISO 527-1, -3	> 450	%
Vicat softening temperature	A/50	ISO 306	114	°C
ESCR	50°C / 10% Igepal	ASTMD 1693	>1000	h

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\* The indicated values are typical values and should not be used for specification work.

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