TECHNICAL DATA SHEET

PRODUCT NAME: UNIPOL R-EPS

GRADES:
- **R-EPS DDS 6+**
- **R-EPS CCS 6+**

PROPERTIES AND APPLICATIONS

EPS (Expandable Polystyrene) contains pentane acting as an expansion agent. UNIPOL R-EPS contains no flame-retardant ingredient and is suitable for use as insulation material where the presence of a flame-retardant ingredient is not strictly necessary.

Properties	R-EPS DDS 6+	R-EPS CCS 6+
Sieves	0.8 - 1.25 mm	1.25 - 1.8 mm
Bead size	0.71 - 1.25 mm (> 90%)	1.12 - 1.8 mm (> 95%)
Pentane (%)	6% (5.8-6.4%)	6% (5.8-6.4%)
Bulk density	550 - 650 kg/m^3	550 - 650 kg/m^3
Prefoam density [1]	15 - 30 kg/m^3	14 - 20 kg/m^3
Applications	Shape and Block molding of medium to high density	Block molding of low to medium density
Water content	< 0.4% (w/w)	< 0.4% (w/w)

[1] Depending on the type of pre-foamer, pre-foaming method and/or predefined requirements.

Remark:
For emptying an octabin, we strongly recommend making an opening in the lower part of the octabin and not opting for the use of a tilting mechanism (extra static charging).

PROCESSABILITY OF UNIPOL R-EPS GRADES

R-EPS DDS 6+				R-EPS CCS 6+			
Achievable prefoam density (kg/m³)				**Achievable prefoam density (kg/m³)**			
Type of prefoamer		Continuous	Batch/ pressure	Type of prefoamer		Continuous	Batch/ pressure
Density	1x	16	15	Density	1 x	15	14
	2x	12	10		2 x	11	9
					3 x	10	
Maturing time as function of temperature and density				**Maturing time as function of temperature and density**			
Density	Temperature	Hours		Density	Temperature	Hours	
10kg/m³	0-12	24		**10kg/m³**	0-12	8	
	12-20	16			12-20	4	
	20+	12			20+	4	
15kg/m³	0-12	48		**15kg/m³**	0-12	48	
	12-20	36			12-20	36	
	20+	24			20+	24	
20kg/m³	0-12	96		**20kg/m³**	0-12	96	
	12-20	72			12-20	72	
	20+	48			20+	48	

Maturing times still depending on specific/local circumstances.