

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 (%)	≥ 5.8%	≥ 5.8%
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.

PROCESSABILITY OF UNIPOL R-EPS GRADES

R-EPS DDS 6+				R-EPS CCS 6+			
Achievable prefoam density (kg/m ³)				Achievable prefoam density (kg/m ³)			
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.