



TotalEnergies

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Finalloy® EBP-830/1 UC78

Technical data sheet – Issue 2
Polypropylene Automotive Compound
Produced in Europe

Description

Finalloy EBP-830/1 UC78 is a 30% mineral-filled and impact modified polypropylene-based compound that combines very high rigidity with good processability and a very low linear thermal expansion.

Finalloy EBP-830/1 UC78 is UV stabilised and is particularly suitable for the injection moulding of unpainted automotive body parts, which require high stiffness, good aesthetics and very high dimensional stability.

Characteristics

	Method	Unit	Typical Value
Rheological properties			
Melt Flow Rate 230°C/2,16 kg	ISO 1133-1	g/10 min	16
Mechanical properties			
Tensile strength at yield	ISO 527	MPa	27
Tensile strain at yield	ISO 527	%	2
Elongation at break	ISO 527	%	20
Flexural modulus	ISO 178	MPa	3600
Charpy impact strength (notched)			
at 23°C	ISO 179-1eA	kJ/m ²	7
at -20°C	ISO 179-1eA	kJ/m ²	3
Biaxial FW Impact at 0°C	ISO 6603/20		Ductile
Thermal properties			
Melting range	internal method	°C	160-165
Heat Deflection Temperature			
0,45 MPa - 120°C per hour	ISO 75-2	°C	120
Vicat Softening point A50 (10N, 50°C/h)	ISO 306	°C	135
Linear mould shrinkage, MD, t=3mm	internal method	%	0,5-0,7
Coefficient of Linear Thermal Expansion	ISO 11359-2	m/(m·K)	45·10 ⁻⁶
Other physical properties			
Density	ISO 1183-1	g/cm ³	1,13

PP Automotive Compound