TotalEnergies

Refining & Chemicals
Polymers

Finalloy® EBP-830/1 C16

Technical data sheet – Issue 7
Polypropylene Automotive Compound
Produced in Europe

Description

Finalloy EBP-830/1 C16 is a 30% mineral-filled and impact modified polypropylene-based compound that combines a very high rigidity with good processability and a very low linear thermal expansion. Finalloy

EBP-830/1 C16 is particularly suitable for the injection moulding of automotive body parts, which require high stiffness, good paintability 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	13
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	3800
Charpy impact strength (notched)			
at 23°C	ISO 179-1eA	kJ/m^2	6
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)	$45 \cdot 10^{-6}$
Other physical properties			
Density	ISO 1183-1	g/cm^3	1,13

Handling and storage

Please refer to the safety data sheet (SDS) for handling and storage information. It is advisable to convert the product within one year after delivery, provided storage conditions are used as given in the SDS of our product. SDS may be obtained from your technical service contact on request.

Shrinkage range is given as an indication only and should not be used as such for mould design. Shrinkage depends on many variables. Users should define mould shrinkage based on their own measurements.

PP Automotive Compound

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