


TotalEnergies

Refining & Chemicals
Polymers

Finalloy® EBP-1415 C16

Technical data sheet – Issue 6
Polypropylene Automotive Compound
Produced in Europe

Description

Finalloy EBP-1415 C16 is a 12% mineral-filled, light-weight, impact-modified and polypropylene-based compound that combines very good processing with good impact resistance and high stiffness. Its formulation targets properties to be equal to former 20% filled bumper grades, allowing ca. 6% savings in weight.

Finalloy EBP-1415 C16 is particularly suitable for the injection moulding of painted automotive exterior parts like bumpers.

Characteristics

	Method	Unit	Typical Value
Rheological properties			
Melt Flow Rate 230°C/2,16 kg	ISO 1133-1	g/10 min	20
Mechanical properties			
Tensile strength at yield	ISO 527	MPa	17,5
Tensile strain at yield	ISO 527	%	6,5
Elongation at break	ISO 527	%	550
Flexural modulus	ISO 178	MPa	1450
Charpy impact strength (notched)	ISO 179-1eA	kJ/m ²	
at 23°C			No break
at -20°C			7
at -30°C			5
Thermal properties			
Melting range	internal method	°C	160-165
Heat Deflection Temperature	ISO 75-2	°C	
0,45 MPa - 120°C per hour			100
Vicat Softening point A50 (10N, 50°C/h)	ISO 306	°C	125
Linear mould shrinkage, MD, t=3mm	internal method	%	0,60 – 0,80
Coefficient of Linear Thermal Expansion	ISO 11359-2	m/(m·K)	50·10 ⁻⁶
Other physical properties			
Density	ISO 1183-1	g/cm ³	0,975

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.

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