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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