

Description

Finalloy EBP-1415 SchwarzSilber is a 15% mineral filled, light-weight, impact modified polypropylene-based compound that combines very good processing with good impact resistance and high stiffness. Its formulation targets properties to be minimum equal to 20% filled bumper grades, allowing ca. 4% savings in weight. The material is UV stabilized and is optimized for reducing tiger lines.

Finalloy EBP-1415 SchwarzSilber is particularly suitable for the injection moulding of unpainted automotive parts, which require a good impact resistance and high dimensional stability like bumper spoilers and grills.

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 modulus	ISO 527	MPa	1450
Tensile strength at yield	ISO 527	MPa	16
Tensile strain at yield	ISO 527	%	5
Elongation at break	ISO 527	%	70
Flexural modulus	ISO 178	MPa	1600
Charpy impact strength (notched)			
at 23°C	ISO 179-1eA	kJ/m ²	50
at -20°C	ISO 179-1eA	kJ/m ²	15
Thermal properties			
Melting range	internal method	°C	160-165
Heat Deflection Temperature			
0,45 MPa - 120°C per hour	ISO 75-2	°C	100
Vicat Softening point A50 (10N, 50°C/h)	ISO 306	°C	125
Linear mould shrinkage, MD, t=3mm	internal method	%	0,5 – 0,6
Coefficient of Linear Thermal Expansion	ISO 11359-2	m/(m·K)	45·10 ⁻⁶
Other physical properties			
Density	ISO 1183-1	g/cm ³	0,997