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Finalloy® EBP-15X6H UC7C45

Technical data sheet – Issue 5
Polypropylene Automotive Compound
Produced in Europe

Description

Finalloy EBP-15X6H UC7C45 is a mineral-filled and impact modified polypropylene-based compound that has a very low linear thermal expansion in combination with high modulus, good processability, good scratch resistance and reduced tiger marks. It has a high **thermal stability**.

Finalloy EBP-15X6H UC7C45 is UV stabilized and optimized for good surface aspect. It is particularly suitable for the injection moulding of **unpainted** automotive exterior parts like rocker panels, wheel arches, door trim lists and other parts, which require low thermal expansion. This material has the Daimler color

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	18
Tensile strain at yield	ISO 527	%	5
Elongation at break	ISO 527	%	60
Flexural modulus	ISO 178	MPa	2200
Charpy impact strength (notched)	ISO 179-1eA	kJ/m ²	
at 23°C			25
at -20°C			4
Hardness	ISO 868	Shore D	65
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	%	0,4 – 0,65
Coefficient of Linear Thermal Expansion	ISO 11359-2	m/(m·K)	37·10 ⁻⁶
Other physical properties			
Density	ISO 1183-1	g/cm ³	1,12