

Description

Finalloy EBP-820/2 UC4W3 is a 20% mineral-filled and impact modified polypropylene-based compound that combines a very low linear thermal expansion and reduced tiger marks with good process ability.

Finalloy EBP-820/2 UC4W3 is UV stabilized and optimized for good surface aspect. It is particularly suitable for the injection moulding of automotive exterior parts like rocker panels, wheel arches and other parts, which require low thermal expansion. This material has the Audi color 4W3 (corresponding to L_MX3 =Anthrazit).

Characteristics

	Method	Unit	Typical Value
Rheological properties			
Melt Flow Index 230°C/2.16 kg	ISO 1133	g/10 min	17
Mechanical properties			
Tensile strength at yield	ISO 527	MPa	18
Tensile strain at yield	ISO 527	%	5
Elongation at break	ISO 527	%	80
Flexural modulus	ISO 178	MPa	1900
Charpy impact strength (notched)	ISO 179-1eA	kJ/m ²	
at 23°C			30
at -20°C			6
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	%	0.5
Coefficient of Linear Thermal Expansion	ASTM D 696	m/m/K	40*10 ⁻⁶
Other physical properties			
Density	ISO 1183-1	g/cm ³	1.030

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