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TotalEnergies

Refining & Chemicals
Polymers

Finalloy® HXN-86

Technical data sheet – Issue 8
Polypropylene Automotive Compound
Produced in Europe

Description

Finalloy HXN-86 is a 20% mineral-filled polypropylene copolymer-based compound that combines good processing with high rigidity.

Finalloy HXN-86 is particularly suitable for the injection moulding of automotive interior parts like air ducts, which require **low HC emission and low odour**.

Characteristics

	Method	Unit	Typical Value
Rheological properties			
Melt Flow Rate 230°C/2,16 kg	ISO 1133-1	g/10 min	14
Mechanical properties			
Tensile modulus	ISO 527	MPa	2600
Tensile strength at yield	ISO 527	MPa	27
Tensile strain at yield	ISO 527	%	3,5
Elongation at break	ISO 527	%	25
Flexural modulus	ISO 178	MPa	2700
Charpy impact strength (notched)			
at 23°C	ISO 179-1eA	kJ/m^2	4
Charpy impact strength (unnotched)			
at –30°C	ISO 179-1eU	kJ/m^2	30
Thermal properties			
Melting range	internal method	°C	160-165
Heat Deflection Temperature			
0,45 MPa - 120°C per hour	ISO 75-2	°C	125
Linear mould shrinkage, MD, t=3mm	internal method	%	0,95 – 1,15
Coefficient of Linear Thermal Expansion	ISO 11359-2	m/(m·K)	$75 \cdot 10^{-6}$
Other physical properties			
Density	ISO 1183-1	g/cm^3	1,04
VOC / FOG Emission	VDA 278	ppm	100 / 230
Static Headspace C-emission	VDA 277	µg C/g	40
Odour	VDA 270 / B3	1 - 6	3
Fogging	DIN 75201-B	mg	0,5

PP Automotive Compound