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

Handling and storage

Please refer to the safety data sheet (SDS) for handling and storage information. It is advisable to convert the product within one year after delivery, provided storage conditions are used as given in the SDS of our product. SDS may be obtained from your technical service contact on request.

Shrinkage range is given as an indication only and should not be used as such for mould design. Shrinkage depends on many variables. Users should define mould shrinkage based on their own measurements.

PP Automotive Compound

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