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TotalEnergies

Refining & Chemicals
Polymers

Finalloy® SMV-65

Technical data sheet – Issue 9
Polypropylene Automotive Compound
Produced in Europe

Description

Finalloy SMV-65 is a 10% mineral-filled and impact-modified polypropylene-based compound that combines a good impact-rigidity balance with very good processability. This material has been developed to meet new specifications for low VOC emissions.

Finalloy SMV-65 is particularly suitable for the injection moulding of non-painted, visible automotive interior parts that require an excellent scratch resistance. The impact strength of the material is very high, which makes this grade suitable for applications that have to fulfil e.g. knee, side and head impact requirements.

Characteristics

	Method	Unit	Typical Value
Rheological properties			
Melt Flow Rate 230°C/2,16 kg	ISO 1133-1	g/10 min	30
Mechanical properties			
Tensile modulus	ISO 527	MPa	1750
Tensile strength at yield	ISO 527	MPa	23
Tensile strain at yield	ISO 527	%	4,5
Elongation at break	ISO 527	%	40
Flexural modulus	ISO 178	MPa	1900
Charpy impact strength (notched)			
at 23°C	ISO 179-1eA	kJ/m²	15
at –20°C	ISO 179-1eA	kJ/m²	4
at –30°C	ISO 179-1eA	kJ/m²	3
Charpy impact strength (unnotched)			
at 23°C	ISO 179-1eU	kJ/m²	NB
at –30°C	ISO 179-1eU	kJ/m²	45
Thermal properties			
Melting range	internal method	°C	160-165
Heat Deflection Temperature			
0,45 MPa - 120°C per hour	ISO 75-2	°C	95
Linear mould shrinkage, MD, t=3mm	internal method	%	1,00 – 1,25
Coefficient of Linear Thermal Expansion	ISO 11359-2	m/(m·K)	$85 \cdot 10^{-6}$
Other physical properties			
Density	ISO 1183-1	g/cm³	0,98

PP Automotive Compound