

HiPrene® HT42

Polypropylene Compound

Product Description

HiPrene® HT42 is a medium melt flow, 20% mineral filled polypropylene compound. This material is high stiffness and it is primarily designed for Home Appliance Parts but is suitable for other parts in automotive industry.

Product Characteristics

Status	Commercial: Active
Test Method Used	ISO
Availability	Europe/Asia
Features	Mineral Filler Reinforced/Heat Resistance
Typical Customer Applications	Automotive Parts/Home Appliance Parts/Electrical Parts

Typical Properties

Physical	Symbol	Test Method	Unit	Specification
Melt Mass-Flow Rate	MFR	ISO 1133-2/A	g/10min	12 ± 3
Specific Gravity	ρ	ISO 1183	g/cm ³	1,05 ± 0,02
Molding Shrinkage	S _M	ISO 294-4	%	-
Mechanical	Symbol	Test Method	Unit	Specification
Tensile Strength	σ_m	ISO 527-2/1A/50	MPa	min. 34
Nominal Tensile Strain at Break	ϵ_{IB}	ISO 527-2/1A/50	%	15
Flexural Strength	σ_{fm}	ISO 178/B	Mpa	N/A
Flexural Modulus	E _f	ISO 178/B	MPa	2700
Impact	Symbol	Test Method	Unit	Specification
Notched IZOD Impact Strength @ 23°C	a _{N23°C}	ISO 180/A/23°C	J/m	30
Hardness	Symbol	Test Method	Unit	Specification
Rockwell Hardness (R-Scale)	HR-R	ISO 2039-2/R	-	100
Thermal	Symbol	Test Method	Unit	Specification
Temperature of Deflection under Load (HDT)	T _f	ISO 75-2/A	°C	140
Volatile Matters		GS Standard SOP003	%	max. 0,15
Ash Content @ 600°C	Ash _{600°C}	ISO 3451-1/A/600°C	%	20 ± 2

Notes

Typical properties; not to be constructed as specifications

Contact

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