

HiPrene® MT42HS

Polypropylene

GS Caltex

Message:

HiPrene® MT42HS is a 20% mineral filled, impact modified polypropylene compound suitable for injection moulding. This material combines excellent impact/stiffness balance, high scratch resistance and good flowability. It gives a good surface quality and is especially designed for esthetical interior parts such as instrument panels, lower and upper dashboard, door panels and trims. This grade is available in natural or color-matched, pellet form.

General Information			
Filler / Reinforcement	Mineral filler, 20% filler by weight		
Additive	Impact modifier		
Features	Impact modification		
	Rigidity, high		
	High scratch resistance		
	Impact resistance, high		
	Workability, good		
	Good liquidity		
	Excellent appearance		
Uses	Application in Automobile Field		
	Car interior parts		
	Car interior equipment		
	Car dashboard		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	13	g/10 min	ASTM D1238
Molding Shrinkage			Internal method
Flow	0.90	%	Internal method
Transverse flow	0.90	%	Internal method
Ash Content (600°C)	21	%	Internal method
Volatile Matter	0.10	%	Internal method
Anti-scratch-Delta L ¹	1.10		
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	65		ASTM D785
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength (Yield)	22.0	MPa	ASTM D638
Tensile Elongation (Break)	150	%	ASTM D638
Flexural Modulus ² (23°C)	2200	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	30.0	kJ/m ²	ASTM D256
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0	hr	
Hopper Temperature	40.0 - 80.0	°C	
Processing (Melt) Temp	210 - 250	°C	
Mold Temperature	30.0 - 50.0	°C	
Holding Pressure	4.00 - 6.50	MPa	
Injection instructions			

Back Pressure: Low to MediumScrew Speed: Low to MediumInjection Speed: 100 to 200 m/min

NOTE

1. Performed on black plaques with rough structure, acc. PV 3952
2. 2.0 mm/min

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