

HiPrene® MT52VF

Polypropylene

GS Caltex

Message:

HiPrene® MT52VF 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		
	Impact resistance, high		
	Workability, good		
	Good liquidity		
	Scratch resistance		
	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
Density	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)	22	g/10 min	ISO 1133
Molding Shrinkage			Internal method
Vertical flow direction	0.90	%	Internal method
Flow direction	0.90	%	Internal method
Ash Content (600°C)	20	%	ISO 3451
Volatile Matter	0.10	%	Internal method
Anti-scratch-Delta L ¹	1.00		
Flammability	85	mm/min	TL 1010
Fogging ² (100°C)		mg	DIN 75201
Emission		g	VDA 277

Odor ³ (80°C)	2.50		
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	70		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	20.0	MPa	ISO 527-2
Tensile Strain (Yield)	5.5	%	ISO 527-2
Flexural Modulus ⁴ (23°C)	2000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	25	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	95.0	°C	ISO 75-2/B
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. | 16 hr |
| 3. | 2 hr, acc. PV 3900 |
| 4. | 2.0 mm/min |

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