

HiPrene® MT41VJ

Polypropylene

GS Caltex

Message:

HiPrene® MT41VJ is a 13% mineral filled, elastomer modified polypropylene compound suitable for injection moulding. This material has an excellent balance between impact strength and stiffness. It gives a good surface quality and is especially designed for esthetical interior parts such as instrument panels, door panels and trims. This grade is available in natural or color-matched, pellet form.

General Information			
Filler / Reinforcement	Mineral filler, 13% filler by weight		
Additive	Impact modifier		
Features	Impact modification		
	Rigidity, high		
	Impact resistance, high		
	Workability, good		
	Heat resistance, high		
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	0.980	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)	12	g/10 min	ISO 1133
Molding Shrinkage			Internal method
Vertical flow direction	0.85	%	Internal method
Flow direction	0.85	%	Internal method
Ash Content (600°C)	13	%	ISO 3451
Volatile Matter	0.10	%	Internal method
Anti-scratch-Delta L ¹	0.800		
Flammability	85	mm/min	TL 1010
Fogging ² (100°C)		mg	DIN 75201
Emission		g	VDA 277
Odor ³ (80°C)	2.70		
Mechanical	Nominal Value	Unit	Test Method

Tensile Stress (Yield)	20.0	MPa	ISO 527-2
Tensile Strain (Yield)	6.0	%	ISO 527-2
Flexural Modulus ⁴ (23°C)	1700	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	30	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 Medium Screw Speed: Low to Medium Injection Speed: 100 to 200 m/min

NOTE

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|----|---|
| 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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