HiPrene® MT41VG

Polypropylene

GS Caltex

Message:

HiPrene® MT41VG is a 10% 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 lower and upper dashboard, instrument panel, door and pillar trims. This grade is available in natural or color-matched, pellet form.

General Information	
Filler / Reinforcement	Mineral filler, 10% filler by weight
Additive	Impact modifier
Features	Impact modification Rigidity, high Impact resistance, high Workability, good 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	0.970	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)	13	g/10 min	ISO 1133
Molding Shrinkage			Internal method
Vertical flow direction	1.0	%	Internal method
Flow direction	1.0	%	Internal method
Ash Content (600°C)	10	%	ISO 3451
Volatile Matter	0.10	%	Internal method
Anti-scratch-Delta L [1]	1.20		
Flammability	85	mm/min	TL 1010
Fogging [2] (100°C)		mg	DIN 75201
Emission		g	VDA 277
Odor [3] (80°C)	2.70		

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	65		ISO 2039-2
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield)	23.0	MPa	ISO 527-2
Tensile Strain (Yield)	3.0	%	ISO 527-2
Flexural Modulus [4] (23°C)	1750	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 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

Recommended distributors for this material

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