

HiPrene® MSG43

Polypropylene

GS Caltex

Message:

HiPrene® MSG43E is a 30% glass fiber filled, impact modified polypropylene compound suitable for injection moulding. This material combines excellent impact/stiffness balance and high heat stability. This grade is available in natural or color-matched, pellet form.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Impact Modifier		
Features	Good Processability		
	High Heat Resistance		
	High Impact Resistance		
	High Strength		
	Impact Modified		
Uses	Automotive Applications		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)	2.5	g/10 min	ISO 1133
Ash Content (600°C)	33	%	ISO 3451
Volatile Matter	0.15	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	85		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	65.0	MPa	ISO 527-2
Tensile Strain (Break)	7.5	%	ISO 527-2
Flexural Modulus ¹ (23°C)	4700	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	35	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	157	°C	ISO 75-2/B
Injection	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Drying Time	4.0	hr	
Rear Temperature	220 to 230	°C	
Middle Temperature	230 to 240	°C	

Front Temperature	240 to 250	°C
Nozzle Temperature	240 to 250	°C
Processing (Melt) Temp	230 to 270	°C
Mold Temperature	30.0 to 75.0	°C
Injection Pressure	55.0 to 120	MPa
Injection Rate	Slow	
Holding Pressure	40.0 to 80.0	MPa
Back Pressure	0.00 to 3.00	MPa

NOTE

1. 2.0 mm/min

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

