

Novodur® P2HGV

Acrylonitrile Butadiene Styrene

Styrolution

Message:

Novodur P2HGV is a 16% glass fiber reinforced injection molding grade which provides high rigidity and enhanced heat resistance.

General Information			
UL YellowCard	E256400-545815		
Filler / Reinforcement	Glass Fiber, 16% Filler by Weight		
Features	High Heat Resistance		
	High Rigidity		
	High Stiffness		
	High Strength		
Uses	Automotive Applications		
	Structural Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Multi-Point Data	Shear Modulus vs. Temperature (ISO 11403-1)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Density	1.16	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	3.00	cm ³ /10min	ISO 1133
Molding Shrinkage	0.20 to 0.40	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	135	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5500	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield, 23°C	74.0	MPa	
Break, 23°C	74.0	MPa	
Tensile Strain (Break, 23°C)	2.0	%	ISO 527-2
Flexural Modulus	5400	MPa	ISO 178
Flexural Stress	101	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	5.0	kJ/m ²	

23°C	6.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	20	kJ/m ²	
23°C	18	kJ/m ²	
Notched Izod Impact Strength			ISO 180/A
-30°C	5.0	kJ/m ²	
23°C	7.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Annealed	106	°C	ISO 75-2/B
1.8 MPa, Annealed	102	°C	ISO 75-2/A
Vicat Softening Temperature	105	°C	ISO 306/B50
CLTE - Flow	4.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength ¹ (1.50 mm)	32	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	2.90		
1 MHz	3.10		
Dissipation Factor			IEC 60250
100 Hz	5.0E-3		
1 MHz	6.0E-3		
Comparative Tracking Index	575	V	IEC 60112
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	220 to 260	°C	
Mold Temperature	70.0	°C	
Injection Velocity	240	mm/sec	
NOTE			
1.	Short Time		

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



WECHAT