

Novodur® P2M-V

Acrylonitrile Butadiene Styrene
Styrolution

Message:

Novodur P2M-V is a medium impact, high gloss injection molding grade with reduced emission

General Information			
Features	High Gloss		
	Low Smoke Emission		
	Medium Impact Resistance		
Uses	Automotive Interior Trim		
Forms	Pellets		
Processing Method	Injection Molding		
Part Marking Code (ISO 2580)	ABS 0, MG, 095-15-16-20		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	18.0	cm ³ /10min	ISO 1133
Molding Shrinkage	0.40 to 0.70	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	100	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2300	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	40.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield, 23°C	2.2	%	
Break, 23°C	> 15	%	
Flexural Modulus	2200	MPa	ISO 178
Flexural Stress	65.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	11	kJ/m ²	
23°C	22	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	120	kJ/m ²	
23°C	180	kJ/m ²	
Notched Izod Impact Strength			ISO 180/A
-30°C	11	kJ/m ²	
23°C	23	kJ/m ²	

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Annealed	98.0	°C	ISO 75-2/B
1.8 MPa, Annealed	93.0	°C	ISO 75-2/A
Vicat Softening Temperature	97.0	°C	ISO 306/B50
CLTE - Flow	1.0E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Electric Strength ¹ (1.50 mm)	39	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.10		
1 MHz	2.90		
Dissipation Factor			IEC 60250
100 Hz	5.0E-3		
1 MHz	8.0E-3		
Comparative Tracking Index	600	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		

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