

Novodur® P2M-AT

Acrylonitrile Butadiene Styrene
Styrolution

Message:

Novodur P2M-AT is a medium impact, high gloss injection molding grade with good flowability

General Information			
Features	Good Flow		
	High Gloss		
	Medium Impact Resistance		
Uses	Appliances		
	Telecommunications		
Forms	Pellets		
Processing Method	Injection Molding		
Multi-Point Data	Shear Modulus vs. Temperature (ISO 11403-1)		
	Specific Volume vs Temperature (ISO 11403-2)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
Part Marking Code (ISO 2580)	ABS 0, MGZ, 095-30-16-20		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	22.0	cm³/10min	ISO 1133
Molding Shrinkage	0.40 to 0.70	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	95.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2300	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	39.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield, 23°C	2.1	%	
Break, 23°C	> 15	%	
Flexural Modulus	2100	MPa	ISO 178
Flexural Stress	60.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	11	kJ/m²	
23°C	22	kJ/m²	

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	97.0	°C	ISO 75-2/B
1.8 MPa, Annealed	93.0	°C	ISO 75-2/A
Vicat Softening Temperature	98.0	°C	ISO 306/B50
CLTE - Flow	1.0E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Relative Permittivity			IEC 60250
100 Hz	3.10		
1 MHz	3.00		
Dissipation Factor			IEC 60250
100 Hz	6.0E-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	

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