Novodur® P2MC

Acrylonitrile Butadiene Styrene

Styrolution

Message:

Novodur P2MC is an injection molding grade especially suitable for electroplating, providing high flowability.

General Information	
Features	Good Impact Resistance High Flow Platable
Uses	Appliances Household Goods
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)

Physical	Nominal Value	Unit	Test Method
Density	1.03	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	25.0	cm³/10min	ISO 1133
Molding Shrinkage	0.40 to 0.70	%	ISO 294-4
Hardness	**Nominal Value**	**Unit**	**Test Method**
Ball Indentation Hardness	90.0	MPa	ISO 2039-1
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2200	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	40.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield, 23°C	2.4	%	
Break, 23°C	> 15	%	
Flexural Modulus	2100	MPa	ISO 178
Flexural Stress	62.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179
-30°C	14	kJ/m²	
23°C	24	kJ/m²	
Notched Izod Impact Strength			ISO 180/A

-30°C	12	kJ/m²	
23°C	23	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Annealed	96.0	°C	ISO 75-2/B
1.8 MPa, Annealed	94.0	°C	ISO 75-2/A
Vicat Softening Temperature	95.0	°C	ISO 306/B50
CLTE - Flow	1.0E-4	cm/cm/°C	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength [1] (1.50 mm)	37	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.00		
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		

Recommended distributors for this material

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