

Novodur® Ultra 4000PG

Acrylonitrile Butadiene Styrene

Styrolution

Message:

Novodur Ultra 4000PG is an injection molding grade especially suitable for electroplating, providing enhanced heat resistance.

General Information			
Features	High Heat Resistance		
	Platable		
Uses	Automotive Applications		
	Automotive Exterior Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	6.00	cm ³ /10min	ISO 1133
Molding Shrinkage	0.50 to 0.80	%	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	2400	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	46.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield, 23°C	3.1	%	
Break, 23°C	> 15	%	
Flexural Modulus	2350	MPa	ISO 178
Flexural Stress	73.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	10	kJ/m ²	
23°C	20	kJ/m ²	
Notched Izod Impact Strength			ISO 180/A
-30°C	10	kJ/m ²	
23°C	23	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Annealed	103	°C	ISO 75-2/B

1.8 MPa, Annealed	98.0	°C	ISO 75-2/A
Vicat Softening Temperature	107	°C	ISO 306/B50
CLTE - Flow	9.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Electric Strength ¹ (1.50 mm)	38	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.00		
1 MHz	2.90		
Dissipation Factor			IEC 60250
100 Hz	6.5E-3		
1 MHz	8.5E-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	230 to 270	°C	
Mold Temperature	70.0	°C	
Injection Velocity	240	mm/sec	
NOTE			
1.	Short Time		

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