

Novodur® M210TF

Acrylonitrile Butadiene Styrene

Styrolution

Message:

Novodur M210TF is medium impact, high gloss injection molding grade designed for toy application. M210TF is in compliance with food contact regulations

General Information			
Features	Food Contact Acceptable		
	High Gloss		
	Medium Impact Resistance		
Uses	Non-specific Food Applications		
	Toys		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	30.0	cm ³ /10min	ISO 1133
Molding Shrinkage	0.40 to 0.70	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	90.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2050	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	42.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield, 23°C	2.4	%	
Break, 23°C	> 15	%	
Flexural Modulus	2050	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/m ²	
23°C	17	kJ/m ²	
Notched Izod Impact Strength			ISO 180/A
-30°C	11	kJ/m ²	
23°C	17	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	94.0	°C	ISO 75-2/A
Vicat Softening Temperature	95.0	°C	ISO 306/B50
CLTE - Flow	9.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Relative Permittivity			IEC 60250
100 Hz	2.90		
1 MHz	2.90		
Dissipation Factor			IEC 60250
100 Hz	6.0E-3		
1 MHz	9.0E-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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