Novodur® 5300

Acrylonitrile Butadiene Styrene

Styrolution

Message:

Novodur 5300 is a high heat injection molding grade with high impact strength, good chemical resistance and reduced emission (PC modified)

General Information			
Features	Good Chemical Resistance High Heat Resistance High Impact Resistance Low Emissions		
Uses	Automotive Applications Automotive Interior Parts Automotive Interior Trim		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.07	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	5.00	cm³/10min	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	2350	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	49.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	2.9	%	ISO 527-2
Flexural Modulus	2300	MPa	ISO 178
Flexural Stress	75.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179
-30°C	12	kJ/m²	
23°C	32	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	180	kJ/m²	
23°C	No Break		
Notched Izod Impact Strength			ISO 180/A
-30°C	12	kJ/m²	

23°C	32	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Annealed	106	°C	ISO 75-2/B
1.8 MPa, Annealed	99.0	°C	ISO 75-2/A
Vicat Softening Temperature	106	°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	3.10		
1 MHz	3.00		
Dissipation Factor			IEC 60250
100 Hz	4.0E-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	240 to 270	°C	
Mold Temperature	70.0	°C	
Injection Velocity	240	mm/sec	

Recommended distributors for this material

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