Novodur® E211

Acrylonitrile Butadiene Styrene

Styrolution

Message:

Novodur E211 is a high heat extrusion grade and suitable for blow molding

General Information	
Features	Good Melt Strength High Heat Resistance
Uses	Blow Molding Applications Sheet
Forms	Pellets
Processing Method	Blow Molding Extrusion Injection Molding Sheet Extrusion

Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	6.00	cm³/10min	ISO 1133
Molding Shrinkage	0.50 to 0.80	%	ISO 294-4
Hardness	**Nominal Value**	**Unit**	**Test Method**
Ball Indentation Hardness	105	MPa	ISO 2039-1
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2500	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	45.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	2.7	%	ISO 527-2
Nominal Tensile Strain at Break (23°C)	> 15	%	ISO 527-2
Flexural Modulus	2400	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/m²	
23°C	20	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	80	kJ/m²	
23°C	150	kJ/m²	

Notched Izod Impact Strength			ISO 180/A
-30°C	9.0	kJ/m²	
23°C	20	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Annealed	107	°C	ISO 75-2/B
1.8 MPa, Annealed	101	°C	ISO 75-2/A
Vicat Softening Temperature	108	°C	ISO 306/B50
CLTE - Flow	8.0E-5	cm/cm/°C	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Electric Strength [1] (1.50 mm)	35	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.10		
1 MHz	2.90		
Dissipation Factor			IEC 60250
100 Hz	5.0E-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	°C	
Mold Temperature	70.0	°C	
Injection Velocity	200	mm/sec	
NOTE			
1.	Short Time		

Recommended distributors for this material

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