Novodur® E401

Acrylonitrile Butadiene Styrene

Styrolution

Message:

Novodur E401 is a high impact extrusion grade with good surface appearance

General Information	
Features	Good Melt Strength Good Surface Finish High Impact Resistance
Uses	Liners Sheet
Forms	Pellets
Processing Method	Coextrusion Extrusion Injection Molding Sheet Extrusion Thermoforming

Physical	Nominal Value	Unit	Test Method
Density	1.02	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	85.0	MPa	ISO 2039-1
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1900	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	40.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield, 23°C	2.5	%	
Break, 23°C	> 15	%	
Flexural Modulus	1900	MPa	ISO 178
Flexural Stress	60.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179
-30°C	16	kJ/m²	
23°C	30	kJ/m²	

Charpy Unnotched Impact Strength			ISO 179
-30°C	170	kJ/m²	
23°C	210	kJ/m²	
Notched Izod Impact Strength			ISO 180/A
-30°C	19	kJ/m²	
23°C	30	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Annealed	100	°C	ISO 75-2/B
1.8 MPa, Annealed	94.0	°C	ISO 75-2/A
Vicat Softening Temperature	99.0	°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+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
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	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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