Novodur® E309

Acrylonitrile Butadiene Styrene

Styrolution

Message:

Novodur E309 is a extrusion grade especially designed for furniture profiles

General Information	
Features	Good Melt Strength
Uses	Furniture Profiles
Forms	Pellets
Processing Method	Extrusion Injection Molding Profile 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 0.70	%	ISO 294-4
Hardness	**Nominal Value**	**Unit**	**Test Method**
Ball Indentation Hardness	95.0	MPa	ISO 2039-1
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2200	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	43.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	2.7	%	ISO 527-2
Flexural Modulus	2200	MPa	ISO 178
Flexural Stress	65.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179
-30°C	14	kJ/m²	
23°C	22	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	100	kJ/m²	
23°C	140	kJ/m²	
Notched Izod Impact Strength			ISO 180/A
-30°C	11	kJ/m²	
23°C	21	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**

Heat Deflection Temperature			
0.45 MPa, Annealed	95.0	°C	ISO 75-2/B
1.8 MPa, Annealed	95.0	°C	ISO 75-2/A
Vicat Softening Temperature	100	°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	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	
Extrusion	**Nominal Value**	**Unit**	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Melt Temperature	220 to 260	°C	

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China