Novodur® E401

丙烯腈丁二烯苯乙烯

INEOS Styrolution Group GmbH

Technical Data

Product Description

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

FEATURES
- High impact strength
- High melt strength
- High surface quality

APPLICATIONS
- Extruded sheets
- Thermoformed parts
- Substate material for co-extrusion
- Refrigerator inliner

General

Features	• 高抗撞击性	• 良好的熔体强度	• 优良外观
Uses	• Thermoforming Applications	• 衬里	• 片材
Forms	• 粒子		
Processing Method	• 共挤出成型 • 挤出	• 片材挤出成型 • 热成型	

Physical	额定值 单位制	测试方法
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 到 0.80 %	ISO 294-4

Mechanical	额定值 单位制	测试方法
Tensile Modulus	1900 MPa	ISO 527-2
Tensile Stress (屈服, 23°C)	40.0 MPa	ISO 527-2
Tensile Strain		ISO 527-2
屈服, 23°C	2.5 %	
断裂, 23°C	> 15 %	
Flexural Modulus	1900 MPa	ISO 178
Flexural Stress	60.0 MPa	ISO 178

Impact	额定值 单位制	测试方法
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	

Hardness	额定值 单位制	测试方法
Ball Indentation Hardness	85.0 MPa	ISO 2039-1

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Thermal	额定值 单位制	测试方法
Heat Deflection Temperature [4]		
0.45 MPa, 退火	100 °C	ISO 75-2/B
1.8 MPa, 退火	94.0 °C	ISO 75-2/A
Vicat Softening Temperature	99.0 °C	ISO 306/B50
CLTE - 流动	9.0E-5 cm/cm/°C	ISO 11359-2

Electrical	额定值 单位制	测试方法
Surface Resistivity	> 1.0E+15 ohms	IEC 60093
Volume Resistivity	> 1.0E+15 ohms·cm	IEC 60093
Electric Strength (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

Extrusion	额定值 单位制
Drying Temperature	80 °C
Drying Time	2.0 到 4.0 hr
Melt Temperature	210 到 240 °C