Novodur® E211

ABS — INEOS Styrolution

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	**6**	cm³/10min	ISO 1133
Temperature	**220**	°C	-
Load	**10**	kg	-
Molding shrinkage, parallel	**0.7**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**2500**	MPa	ISO 527
Yield stress	**45**	MPa	ISO 527
Yield strain	**2.7**	%	ISO 527
Nominal strain at break	**15**	%	ISO 527
Flexural modulus, 23°C	**2400**	MPa	ISO 178
Flexural strength	**73**	MPa	ISO 178
Charpy impact strength, +23°C	**150**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**80**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**20**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**10**	kJ/m²	ISO 179/1eA
Izod notched impact strength, +23°C	**20**	kJ/m²	ISO 180/1A
Izod notched impact strength	**9**	kJ/m²	ISO 180/1A
Temperature	**-30**	°C	-
Ball indentation hardness	**105**	MPa	ISO 2039-1

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**101**[ann.]	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**107**[ann.]	°C	ISO 75-1/-2
Vicat softening temperature, B	**108**	°C	ISO 306
Coeff. of linear therm. expansion, parallel	**80**	E-6/K	ISO 11359-1/-2

ann.: annealed

Electrical properties	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 100Hz	**3.1**	-	IEC 62631-2-1
Relative permittivity, 1MHz	**2.9**	-	IEC 62631-2-1
Electric strength	**35**	kV/mm	IEC 60243-1
Comparative tracking index	**600**	-	IEC 60112

Other properties	Value	Unit	Test Standard
Density	**1040**	kg/m³	ISO 1183
Bulk density	**600**	kg/m³	-

Processing Recommendation Extrusion	Value	Unit	Test Standard
Type of extrusion	**sheet**	-	-
Pre-drying - Temperature	**80**	°C	-
Pre-drying - Time	**2 - 4**	h	-
Melt temperature	**240**	°C	-
Mold temperature	**70**	°C	-

Characteristics

Processing

Sheet Extrusion, Blow Molding

Features

Melt Strength

Delivery form
Pellets

Special Characteristics
Heat stabilized or stable to heat

Regional Availability
Europe, Asia Pacific, South and Central America, Near East/Africa