Novodur® E3TZ

ABS — INEOS Styrolution

Product Texts

Novodur® E3TZ acrylonitrile butadiene styrene (ABS) polymer features high surface quality and good impact strength. Novodur® E3TZ is an extrusion grade with high gloss and good surface appearance. It is optimized for processing via thermoforming. Furthermore, food contact statements are available upon request.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Melt volume-flow rate, MVR	**8**	cm³/10min	ISO 1133
Temperature	**220**	°C	-
Load	**10**	kg	-
Molding shrinkage, parallel	**0.6**	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**2550**	MPa	ISO 527
[C] Yield stress	**48**	MPa	ISO 527
[C] Yield strain	**2.5**	%	ISO 527
Nominal strain at break	**15**	%	ISO 527
Flexural modulus, 23°C	**2600**	MPa	ISO 178
Flexural strength	**75**	MPa	ISO 178
[C] Charpy impact strength, +23°C	**150**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**110**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**19**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**9**	kJ/m²	ISO 179/1eA
Ball indentation hardness	**110**	MPa	ISO 2039-1

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Temp. of deflection under load, 1.80 MPa	**98**	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**103**	°C	ISO 75-1/-2
[C] Vicat softening temperature, B	**100**	°C	ISO 306
[C] Coeff. of linear therm. expansion, parallel	**90**	E-6/K	ISO 11359-1/-2
[C] Burning Behav. at 1.5 mm nom. thickn.	**HB**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	-
Glow Wire Flammability Index (GWFI)	**700**	°C	IEC 60695-2-12
GWFI - thickness tested (1)	**2**	mm	-

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
Surface resistivity	**600**	Ohm	IEC 62631-3-2
Electric strength	**35**	kV/mm	IEC 60243-1

Other properties	Value	Unit	Test Standard
[C] Density	**1050**	kg/m³	ISO 1183

[C]: CAMPUS

Processing Recommendation Extrusion	Value	Unit	Test Standard
Type of extrusion	**profile**	-	-
Pre-drying - Temperature	**80**	°C	-
Pre-drying - Time	**2 - 4**	h	-
Melt temperature	**215 - 240**	°C	-
Type of extrusion	**sheet**	-	-
Pre-drying - Temperature	**80**	°C	-
Pre-drying - Time	**2 - 4**	h	-
Melt temperature	**215 - 240**	°C	-

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Characteristics

Processing
Profile Extrusion, Sheet Extrusion, Other Extrusion, Thermoforming

Delivery form
Pellets

Special Characteristics
High impact or impact modified

Features
High Gloss

Certifications
Food contact

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

Other text information

Profile extrusion
PREPROCESSING
Pre-drying, Temperature: 80°C
Pre-drying, Time: 2 - 4h
PROCESSING
Profiles, Melt temperature: 215 - 240°C

Sheet extrusion
PREPROCESSING
Pre-drying, Temperature: 80°C
Pre-drying, Time: 2 - 4h
PROCESSING
Sheets, Melt temperature: 215 - 240°C

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