

Novodur® E3TZ

ABS

INEOS Styrolution

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.

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	8	cm³/10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2550	MPa	ISO 527
Yield stress	48	MPa	ISO 527
Yield strain	2.5	%	ISO 527
Impact Strength (Charpy), +23°C	150	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	110	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	19	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	9	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	2600	MPa	ISO 178
Flexural strength	75	MPa	ISO 178
Ball Indentation Hardness	110	MPa	ISO 2039-1

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	98	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	103	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	100	°C	ISO 306
Coeff. of Linear Therm. Expansion, parallel	90	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm Nom. Thickn.	HB	class	UL 94
Thickness tested	1.5	mm	-
Glow Wire (GWFI, Flammability Index)	700	°C	IEC 60695-2-12
GWFI - thickness tested (1)	2	mm	-

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1050	kg/m³	ISO 1183

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	-

Characteristics
Processing

Profile Extrusion, Sheet Extrusion, Other Extrusion, Thermoforming

Features

High Gloss

Delivery form

Pellets

Certifications

Food approval

Special Characteristics

Impact modified

Profile extrusion

PREPROCESSING

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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