

Lustran® E112LG

ABS

INEOS Styrolution

Lustran® E112LG is a very low-gloss, medium impact ABS (acrylonitrile butadiene styrene) designed for extrusion/thermoforming applications. It provides a consistent low-gloss appearance in both mono-layer and co-extruded applications.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.005	mm/mm	ASTM D 955

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	7	cm³/10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1600	MPa	ISO 527
Yield stress	28	MPa	ISO 527
Yield strain	2.9	%	ISO 527
Notched Impact Strength (Charpy), +23°C	11	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	9	kJ/m²	ISO 179/1eA
ASTM Data			
Tensile Modulus	1517	MPa	ASTM D 638
Tensile Strength at Yield	19.3	MPa	ASTM D 638
Tensile Strength at Break	22.1	MPa	ASTM D 638
Flexural Modulus	1448	MPa	ASTM D 790
Notched Impact Strength (Izod), 1/8 in	107	J/m	ASTM D 256
Notched Impact Strength (Izod), Low-Temperature	53.4	J/m	ASTM D 256
Temperature	-40	°C	-

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, 50°C/h 50N	95	°C	ISO 306
ASTM Data			
Coefficient of Thermal Expansion, MD	97.2	E-6/K	ASTM D 696
DTUL @ 66 psi	96.1	°C	ASTM D 648
DTUL @ 264 psi	86.1	°C	ASTM D 648

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1040	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

Melt Strength

Delivery form

Pellets

Applications

Automotive

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