

Lustran® 552

ABS

INEOS Styrolution

Lustran® 552 is a medium-gloss, medium-impact ABS (acrylonitrile butadiene styrene) designed for extrusion/ thermoforming applications. It provides an excellence balance of rigidity and impact strength.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index	6	g/10min	ASTM D 1238
Temperature	220	°C	-
Load	10	kg	-
Mold Shrinkage, MD	0.005	mm/mm	ASTM D 955

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	6	cm³/10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2000	MPa	ISO 527
Yield stress	40	MPa	ISO 527
Yield strain	2.6	%	ISO 527
Notched Impact Strength (Charpy), +23 °C	32	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30 °C	12	kJ/m²	ISO 179/1eA
ASTM Data			
Tensile Modulus	1999	MPa	ASTM D 638
Tensile Strength at Yield	35.9	MPa	ASTM D 638
Flexural Modulus	1999	MPa	ASTM D 790
Rockwell Hardness	R 103	-	ASTM D 785
Notched Impact Strength (Izod), 1/8 in	262	J/m	ASTM D 256
Notched Impact Strength (Izod), Low-Temperature	101	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, 50 °C/h 50N	96	°C	ISO 306
Burning Behav. at 1.5 mm Nom. Thickn.	HB	class	UL 94
Thickness tested	1.5	mm	-
UL recognition	yes	-	-
Burning Behav. at thickness h	HB	class	UL 94
Thickness tested	3.0	mm	-
UL recognition	yes	-	-
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Coefficient of Thermal Expansion, MD	82.8	E-6/K	ASTM D 696
DTUL @ 66 psi	93.3	°C	ASTM D 648
DTUL @ 264 psi	87.8	°C	ASTM D 648

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

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Processing

Profile Extrusion, Sheet Extrusion, Other Extrusion, Thermoforming

Delivery form

Pellets

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