INEOS STYROLUTION

Lustran 552

Acrylonitrile Butadiene Styrene (ABS)

TECHNICAL DATASHEET

DESCRIPTION

Lustran® 552 resin is a medium-gloss, medium-impact extrusion grade of ABS (acrylonitrile butadiene styrene). It provides a good balance between rigidity and impact strength, and has a stiff melt flow suitable for extrusion and thermoforming.

FEATURES

- Medium gloss
- Medium impact strength
- Good balance between rigidity and impact strength
- UL 94 HB rated

APPLICATIONS

- Profile extrusions
- Sheet substrate coextrusion

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm³/10 min	6
Mechanical Properties			
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m²	32
Charpy Notched Impact Strength, -10° C	ISO 179/1eA	kJ/m²	17
Charpy Notched Impact Strength, -30 °C	ISO 179/1eA	kJ/m²	12
Tensile Stress at Yield, 23 °C	ISO 527	MPa	40
Tensile Strain at Yield, 23 °C	ISO 527	%	2.6
Tensile Stress at Break, 23 °C	ISO 527	MPa	31
Tensile Strain at Break, 23 °C	ISO 527	%	28
Tensile Modulus	ISO 527	MPa	2000
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	96
Optical Properties			
Processing			
Drying Temperature	-	°C	80
Drying Time	-	h	2 - 4

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Typical values for uncolored products

SUPPLY FORM

Lustran® ABS (Acrylonitrile Butadiene Styrene) resins are available in bulk railcar, bulk truckload and 726kg box quantities.

REGULATORY COMPLIANCE

Please refer to Styrolution web site or contact Styrolution Technical Service for further information.

PROCESSING

To obtain an optimum balance of sheet gloss and mechanical properties, the extruder profile should be set to deliver polymers at a melt temperature between 420° and 465°F (215° and 240°C).

PRODUCT SAFETY

Safety Data Sheets and product labels provide information concerning the health and safety precautions that must be observed when handling the Styrolution products mentioned in this publication. No adverse effects on the health of processing personnel have been observed if the products are correctly processed and the production areas are suitably ventilated. For styrene, acrylonitrile, alpha-methyl styrene, maleic anhydride and 1, 3-butadiene, the maximum allowable workplace concentrations must be observed according to current local and federal regulations. Before working with any of these products, you must read and become familiar with the available information on their hazards, proper use, and handling. This cannot be overemphasized. This information is available in safety data sheets and on product labels. If there are questions or concerns, consult your Styrolution representative or contact the Product Safety and Regulatory Affairs Department at Styrolution.

DISCLAIMER

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