

Luran S 776SE

Acrylonitrile Styrene Acrylate (ASA)

TECHNICAL DATASHEET

DESCRIPTION

Luran® S 776SE is suitable for extrusion applications. It provides good impact toughness and enables a matte surface appearance for extruded sheets.

FEATURES

- Good impact strength
- Suitable for extrusion
- Enables a matte surface finish in extrusion

APPLICATIONS

- Sheets
- Gardening equipment

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm ³ /10 min	4
Mechanical Properties			
Izod Notched Impact Strength, 23 °C	ISO 180/A	kJ/m ²	15
Izod Notched Impact Strength, -30 °C	ISO 180/A	kJ/m ²	4
Charpy Notched Impact Strength, 23 °C	ISO 179	kJ/m ²	30
Charpy Notched Impact Strength, -30 °C	ISO 179	kJ/m ²	4
Tensile Stress at Yield, 23 °C	ISO 527	MPa	47
Tensile Strain at Yield, 23 °C	ISO 527	%	3.3
Tensile Modulus	ISO 527	MPa	2200
Tensile Creep Modulus (1000h)	ISO 899	MPa	1200
Tensile Creep Modulus (1h)	ISO 899	MPa	2000
Elongation at Break (MD)	ISO 527	%	12
Flexural Strength, 23 °C	ISO 178	MPa	65
Hardness, Shore D	ISO 868	-	67
Hardness, Ball Indentation	ISO 2039-1	MPa	70
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	92

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Vicat Softening Temperature, VST/A/50 (10N, 50 °C/h)	ISO 306	°C	104
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	96
Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa)	ISO 75	°C	101
Coefficient of Linear Thermal Expansion	ISO 11359	10 ⁻⁶ /°C	80 - 110
Thermal Conductivity	DIN 52612-1	W/(m K)	0.17
Electrical Properties			
Dielectric Constant (100 Hz)	IEC 60250	-	3.8
Dissipation Factor (100 Hz)	IEC 60250	10 ⁻⁴	90
Dissipation Factor (1 MHz)	IEC 60250	10 ⁻⁴	340
Volume Resistivity	IEC 60093	Ohm*m	1E12
Surface Resistivity	IEC 60093	Ohm	1e+013
Optical Properties			
Light Transmission at 550 nm	ASTM D 1003	%	89
Haze	ASTM D 1003	%	<2
Other Properties			
Density	ISO 1183	kg/m ³	1070
Bulk Density (with external lubricant)		kg/m ³	590
Water Absorption, Saturated at 23 °C	ISO 62	%	1.65
Moisture Absorption, Equilibrium 23 °C/50% RH	ISO 62	%	0.35
Processing			
Linear Mold Shrinkage	ISO 294-4	%	0.5 - 0.9
Drying Temperature		°C	80
Drying Time		h	2 - 4