

# Terluran EGP-7

Acrylonitrile Butadiene Styrene (ABS)

## TECHNICAL DATASHEET

### DESCRIPTION

Terluran® EGP-7 is an extrusion grade with well balanced properties.

### FEATURES

- UL 94 HB

### APPLICATIONS

- Refrigerator liners
- Water pipe
- Coextrusion with Luran S (ASA)

Property, Test Condition	Standard	Unit	Values
<b>Rheological Properties</b>			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm <sup>3</sup> /10 min	5
<b>Mechanical Properties</b>			
Izod Notched Impact Strength, 23 °C	ISO 180/A	kJ/m <sup>2</sup>	34
Izod Notched Impact Strength, -30 °C	ISO 180/A	kJ/m <sup>2</sup>	14
Charpy Notched Impact Strength, 23 °C	ISO 179/1eA	kJ/m <sup>2</sup>	33
Charpy Notched Impact Strength, -30 °C	ISO 179/1eA	kJ/m <sup>2</sup>	14
Tensile Stress at Yield, 23 °C	ISO 527	MPa	43
Tensile Strain at Yield, 23 °C	ISO 527	%	2.9
Tensile Modulus	ISO 527	MPa	2400
Flexural Strength, 23 °C	ISO 178	MPa	65
Flexural Modulus, 23 °C	ISO 178	MPa	2000
Hardness, Ball Indentation	ISO 2039-1	MPa	97
<b>Thermal Properties</b>			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	100
Vicat Softening Temperature, VST/A/50 (10N, 50 °C/h)	ISO 306	°C	107
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	101
Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa)	ISO 75	°C	103
Coefficient of Linear Thermal Expansion	ISO 11359	10 <sup>-6</sup> /°C	80 - 110

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Thermal Conductivity	DIN 52612-1	W/(m K)	0.17
<b>Electrical Properties</b>			
Volume Resistivity	IEC 62631-3-1	Ohm*m	10 <sup>13</sup>
<b>Other Properties</b>			
Density	ISO 1183	kg/m <sup>3</sup>	1030
Water Absorption, Saturated at 23 °C	ISO 62	%	0.95
Moisture Absorption, Equilibrium 23 °C/50% RH	ISO 62	%	0.21
<b>Processing</b>			
Linear Mold Shrinkage	ISO 294-4	%	0.4 - 0.7
Melt Temperature Range	ISO 294	°C	203 - 250
Max Service Temperature	-	°C	80