

Terluran® SP-6

Acrylonitrile Butadiene Styrene
INEOS Styrolution Group GmbH

Message:

Terluran SP-6 is a high impact extrusion grade.

General Information			
Features	High Impact Resistance		
Uses	Appliances		
	Household Goods		
	Profiles		
	Sanitary Products		
	Sheet		
Forms	Pellets		
Processing Method	Coextrusion		
	Extrusion		
	Profile Extrusion		
	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.03	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	5.50	cm³/10min	ISO 1133
Water Absorption			ISO 62
Saturation, 23°C	1.0	%	
Equilibrium, 23°C, 50% RH	0.21	%	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	74.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1900	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	38.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	2.8	%	ISO 527-2
Nominal Tensile Strain at Break (23°C)	9.0	%	ISO 527-2
Flexural Stress	56.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	13	kJ/m²	
23°C	35	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179

-30°C	140	kJ/m ²	
23°C	No Break		
Notched Izod Impact Strength			ISO 180/A
-30°C	14	kJ/m ²	
23°C	36	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Annealed	97.0	°C	ISO 75-2/B
1.8 MPa, Annealed	93.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	103	°C	ISO 306/A50
--	90.0	°C	ISO 306/B50
CLTE - Flow	8.0E-5 to 1.1E-4	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.17	W/m/K	DIN 52612
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	IEC 60093
Relative Permittivity			IEC 60250
100 Hz	2.90		
1 MHz	2.80		
Dissipation Factor			IEC 60250
100 Hz	5.4E-3		
1 MHz	8.2E-3		
Optical	Nominal Value	Unit	Test Method
Yellowness Index	15	YI	DIN 6167
Extrusion	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Melt Temperature	200 to 240	°C	

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