

Terluran® EGP-7

Acrylonitrile Butadiene Styrene
INEOS Styrolution Group GmbH

Message:

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

General Information			
UL YellowCard	E108538-218712		
Uses	Lining		
	Piping system		
	Home appliance components		
Forms	Particle		
Processing Method	Co-extrusion molding		
	Extrusion		

Physical	Nominal Value	Unit	Test Method
Density	1.03	g/cm ³	ISO 1183
Apparent Density	0.55 - 0.65	g/cm ³	
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	5.00	cm ³ /10min	ISO 1133
Molding Shrinkage	0.40 - 0.70	%	ISO 294-4
Water Absorption			ISO 62
Saturated, 23°C	0.95	%	ISO 62
Equilibrium, 23°C, 50% RH	0.21	%	ISO 62

Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	97.0	MPa	ISO 2039-1

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	43.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	2.9	%	ISO 527-2
Flexural Modulus	2000	MPa	ISO 178
Flexural Stress	65.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	14	kJ/m ²	ISO 179
23°C	33	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Notched Izod Impact			ISO 180/A
-30°C	14	kJ/m ²	ISO 180/A

23°C	34	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, annealed	103	°C	ISO 75-2/B
1.8 MPa, annealed	101	°C	ISO 75-2/A
Vicat Softening Temperature			
--	107	°C	ISO 306/A50
--	100	°C	ISO 306/B50
CLTE - Flow	8.0E-5 - 1.1E-4	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.17	W/m/K	DIN 52612
Maximum Service Temperature	80	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Extrusion	Nominal Value	Unit	
Melt Temperature	203 - 250	°C	

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