Terluran® GP-22

ABS — INEOS Styrolution

Product Texts

Terluran® GP-22 is an easy-flow, general purpose injection molding grade with high resistance to impact and heat distortion; intended for a wide range of applications, particularly in the housings sector.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Melt volume-flow rate, MVR	**19**	cm³/10min	ISO 1133
Temperature	**220**	°C	-
Load	**10**	kg	-
[C] Density of melt	**927**	kg/m³	-
[C] Thermal conductivity of melt	**0.202**	W/(m K)	-
[C] Spec. heat capacity of melt	**2570**	J/(kg K)	-
[C] Ejection temperature	**91**	°C	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**2300**	MPa	ISO 527
[C] Yield stress	**45**	MPa	ISO 527
[C] Yield strain	**2.6**	%	ISO 527
[C] Nominal strain at break	**10**	%	ISO 527
[C] Charpy impact strength, +23°C	**180**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**100**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**22**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**8**	kJ/m²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Temp. of deflection under load, 1.80 MPa	**94**	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**99**	°C	ISO 75-1/-2
[C] Vicat softening temperature, B	**96**	°C	ISO 306
[C] Burning Behav. at 1.5 mm nom. thickn.	**HB**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	-
Yellow Card available	**yes**	-	-
[C] Burning Behav. at thickness h	**HB**	class	IEC 60695-11-10
Thickness tested	**3.0**	mm	-
Yellow Card available	**yes**	-	-

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
[C] Relative permittivity, 100Hz	**2.9**	-	IEC 62631-2-1
[C] Relative permittivity, 1MHz	**2.8**	-	IEC 62631-2-1
[C] Dissipation factor, 100Hz	**48**	E-4	IEC 62631-2-1
[C] Dissipation factor, 1MHz	**79**	E-4	IEC 62631-2-1
[C] Volume resistivity	**>1E13**	Ohm*m	IEC 62631-3-1
[C] Surface resistivity	**1E13**	Ohm	IEC 62631-3-2

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Water absorption	**1**	%	Sim. to ISO 62
[C] Humidity absorption	**0.22**	%	Sim. to ISO 62
[C] Density	**1040**	kg/m³	ISO 1183

[C]: CAMPUS

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Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80**	°C	-
Pre-drying - Time	**2 - 4**	h	-
Melt temperature	**220 - 260**	°C	-
Mold temperature	**30 - 60**	°C	-

Characteristics

Processing
Injection Molding

Special Characteristics
Platable

Delivery form
Pellets

Regional Availability
North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Other text information

Injection molding
PREPROCESSING
Pre-drying, Temperature: 80°C
Pre-drying, Time: 2 - 4h
PROCESSING
Melt temperature, range: 220 - 260°C
Mold temperature, range: 30 - 80°C

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