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Terluran® GP-22BASF Corporation - *Acrylonitrile Butadiene Styrene*Unit System: **View****Datasheet** **Shown Below**

ASTM Data Sheet	
ISO Data Sheet	
CAMPUS® Data Sheet	

Actions

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Supplier Portal	
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Product Alternatives	

General Information**Product Description**

Terluran GP-22 is an easy flowing grade of ABS for injection molding with high resistance to impact and heat deflection.

General

Material Status	● Commercial: Active
Availability	● Europe ● North America
Test Standards Available	● ASTM ● ISO ● ISO 10350
Additive	● Impact Modifier
Features	● Flow, Good ● Impact Modified ● Impact Resistance, High
Uses	● Automotive Applications ● Housings ● General Purpose ● Telecommunications
Agency Ratings	● FDA Unspecified Rating ● NSF 61 ● NSF 14 ● UL Unspecified Rating ● NSF 51
Appearance	● Natural Color
Forms	● Pellets
Processing Method	● Injection Molding
Multi-Point Data	● Creep Modulus vs. Time (ISO 11403-1) ● Shear Modulus vs. Temperature (ISO 11403-2) ● Isochronous Stress vs. Strain (ISO 11403-1) ● Specific Volume vs Temperature (ISO 11403-2) ● Isothermal Stress vs. Strain (ISO 11403-1) ● Viscosity vs. Shear Rate (ISO 11403-2) ● Secant Modulus vs. Strain (ISO 11403-1)

ASTM and ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Mold Shrink, Linear-Flow	0.0055	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73 °F)	334000	psi	ASTM D638
Tensile Strength @ Yield (73 °F) ²	6530	psi	ASTM D638
Tensile Elongation @ Yld (73 °F) ²	2.6	%	ASTM D638
Flexural Modulus (73 °F)	334000	psi	ASTM D790
Flexural Strength (73 °F)	9430	psi	ASTM D790
Flexural Strength (73 °F)	9430	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73 °F, 0.125 in)	5.62	ft-lb/in	ASTM D256
Notched Izod Impact Strength (73 °F)	12.4	ft-lb/in ²	ISO 180
Hardness	Nominal Value	Unit	Test Method

Rockwell Hardness (R-Scale)	103	ASTM D785
Thermal	Nominal Value	Unit
DTUL @66psi - Unannealed	196	°F
DTUL @264psi - Unannealed	172	°F
Vicat Softening Point (Rate A, Loading 2 (50 N))	205	°F

CAMPUS® Properties ³

Rheological properties	Nominal Value	Unit	Test Method
Melt volume-flow rate (220°C/10.0 kg)	1.22	in ³ /10min	ISO 1133
Mechanical properties 23°C/50%r.h.	Nominal Value	Unit	Test Method
Tensile modulus	334000	psi	ISO 527-1, -2
Yield stress	6530	psi	ISO 527-1, -2
Yield strain	2.6	%	ISO 527-1, -2
Nominal strain at break	10.0	%	ISO 527-1, -2
Charpy impact strength (+23°C)	85.7	ft-lb/in ²	ISO 179 /1eU
Charpy impact strength (-30°C)	47.6	ft-lb/in ²	ISO 179 /1eU
Charpy notched impact strength (+23°C)	12.8	ft-lb/in ²	ISO 179 /1eA
Charpy notched impact strength (-30°C)	3.81	ft-lb/in ²	ISO 179 /1eA
Thermal properties	Nominal Value	Unit	Test Method
Temp. of deflection under load (1.80 MPa)	210	°F	ISO 75-1, -2
Temp. of deflection under load (0.45 MPa)	217	°F	ISO 75-1, -2
Vicat softening temperature (50°C/h 50N)	207	°F	ISO 306
Coeff. of linear therm. expansion (parallel)	0.000053	in/in/°F	ISO 11359-1, -2
Burning Behav. at 1.6mm nom. thckn. (0.06 in, UL)	HB		ISO 1210
Burning Behav. at thickness h (0.0315 in)	HB		ISO 1210
Electrical properties 23°C/50%r.h.	Nominal Value	Unit	Test Method
Relative permittivity (100 Hz)	2.90		IEC 60250
Relative permittivity (1 MHz)	2.80		IEC 60250
Dissipation factor (100 Hz)	0.0048		IEC 60250
Dissipation factor (1 MHz)	0.0079		IEC 60250
Volume resistivity	3.9E+14	ohm-in	IEC 60093
Surface resistivity	1.0E+13	ohms	IEC 60093
Electric strength	1000	V/mil	IEC 60243-1
Comparative tracking index	600		IEC 60112
Other properties	Nominal Value	Unit	Test Method
Water absorption	1.0	%	ISO 62
Humidity absorption	0.22	%	ISO 62
Density	0.0376	lb/in ³	ISO 1183
Test specimen production	Nominal Value	Unit	Test Method
Injection Molding, melt temperature	482	°F	ISO 294
Injection Molding, mold temperature	140	°F	ISO 10724
Injection Molding, injection velocity	4	in/sec	ISO 294

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2 in/min

³ Typical properties: these are not to be construed as specifications. Additional CAMPUS® data and disclaimer information may be found on CAMPUS® Data Sheet.



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