

Manufacturer: INEOS-styrolution

**INEOS
STYROLUTION**

TERLURAN GP-22 Acrylonitrile Butadiene Styrene (ABS)

DESCRIPTION

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.

FEATURES

- Excellent colorability Medium flow
- Good impact resistance
- Good heat distortion resistance High quality surface finish and gloss
- Great mechanical strength and rigidity

APPLICATIONS

- Injection molding Appliance housings
- Household and sanitary appliances Toys
- Automotive components Consumer products

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Flow Rate, 200 °C/5 kg	ASTM D 1238	g/10 min	1.5
Melt Flow Rate, 220 °C/10 kg	ASTM D 1238	g/10 min	19
Melt Volume Rate 230 °C/3.8 kg	ASTM D 1238	cm ³ /10 min	4.8
Mechanical Properties			
Izod Notched Impact Strength, 23 °C (73 °F)	ASTM D 256	ft-lb/in	5.6
Izod Notched Impact Strength, -18 °C (0 °F)	ASTM D 256	ft-lb/in	1.9
Izod Notched Impact Strength, -30 °C (-22 °F)	ASTM D 256	ft-lb/in	1.1
Tensile Stress at Yield, 23 °C	ASTM D 638	psi	6520
Tensile Modulus	ASTM D 638	psi x 10 ³	334
Elongation, Failure	ASTM D 638	%	2.6
Flexural Strength, 23 °C	ASTM D 790		9430
Flexural Modulus, 23 °C	ASTM D 790	psi x 10 ³	334
Hardness, Rockwell	ASTM D 785	R scale	103
Thermal Properties			
Vicat Softening Temperature, VST/A/50 (10N, 50 °C/h)	ISO 306	°F	204

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Address: office 307-mall el marwa- ordonyia area-10th of ramadan city-sharqia -Egypt

C.R: 122055

Mobile : 01068993789

Email: info@dagplast.com

Property, Test Condition	Standard	Unit	Values
DTUL @ 264 psi - Unannealed	ASTM D 648	°F	172
DTUL @ 66 psi - Unannealed	ASTM D 648	°F	195
DTUL @ 264 psi - Annealed	ASTM D 648	°F	210
DTUL @ 66 psi - Annealed	ASTM D 648	°F	219
Electrical Properties			
Dielectric Constant at 106 CPS (1000000 Hz, 0,0394 in)	ASTM D 150	-	2.8
Volume Resistivity	ASTM D 257	-	>10 ¹³
Other Properties			
Density	ASTM D 792	lb/in ³	1.04
Water Absorption, Saturated at 23 °C	ASTM D 570	%	1
Processing			
Linear Mold Shrinkage	ASTM D 955	in/in	0.004 - 0.007
Melt Temperature Range	-	°F	425 - 500
Mold Temperature Range	-	°F	85 - 140
Injection Velocity	-	in/s	8
Drying Temperature	-	°F	175

SUPPLY FORM

Terluran® is delivered as spherical pellets. The bulk density of the pellets is from 0.55 to 0.65 g/cm³. Standard Packaging unit: 25 kg PE-bag on palette, shrunk or wrapped with PE film or delivery in silo trucks. PE bags should not be stored outside. In dry areas with normal temperature control, Terluran pellets can be stored for relatively long periods of time without any change in mechanical properties. Under poor storage conditions, Terluran absorbs moisture, but this can be removed by drying.

PRODUCT SAFETY

No adverse effects on the health of processing personnel have been observed if the products are correctly processed and the production areas are suitably ventilated. For styrene, acrylonitrile and 1,3-butadiene the maximum allowable workplace concentrations must be observed according to the pertaining national regulations. In Germany, the following limit values are valid (Oct. 2002): styrene, MAK-value: 20 ml/m³ =

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