

Terluran GP-22

Acrylonitrile Butadiene Styrene (ABS)

TECHNICAL DATASHEET

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

APPLICATIONS

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

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	cm³/10 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	ASTM D 790	psi	9430
Flexural Modulus	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
DTUL @ 264 psi - Unannealed	ASTM D 648	°F	172

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Property, Test Condition	Standard	Unit	Values
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	-	>1E13
Other Properties			
Density	ASTM D 792	-	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
Drying Time		h	2 to 4