

Terluran® GP-22

Acrylonitrile Butadiene Styrene
INEOS Styrolution Group GmbH

Message:

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.

General Information			
Features	General Purpose		
	Good Colorability		
	Good Impact Resistance		
	Good Surface Finish		
	High Gloss		
	Medium Flow		
Uses	Appliances		
	Automotive Applications		
	General Purpose		
	Household Goods		
	Housings		
	Sanitary Products		
	Toys		
Forms	Pellets		
Processing Method	Injection Molding		
Multi-Point Data	Creep Modulus vs. Time (ISO 11403-1)		
	Isochronous Stress vs. Strain (ISO 11403-1)		
	Isothermal Stress vs. Strain (ISO 11403-1)		
	Secant Modulus vs. Strain (ISO 11403-1)		
	Shear Modulus vs. Temperature (ISO 11403-1)		
	Specific Volume vs Temperature (ISO 11403-2)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			ASTM D1238
200°C/5.0 kg	1.5	g/10 min	
220°C/10.0 kg	19	g/10 min	
Melt Volume-Flow Rate (MVR)			
230°C/3.8 kg	4.80	cm³/10min	ASTM D1238

220°C/10.0 kg	19.0	cm ³ /10min	ISO 1133
Molding Shrinkage			
Flow	0.40 to 0.70	%	ASTM D955
--	0.40 to 0.70	%	ISO 294-4
Water Absorption			
Saturation, 23°C	1.0	%	ASTM D570, ISO 62
Equilibrium, 23°C, 50% RH	0.22	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	103		ASTM D785
Ball Indentation Hardness	97.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2300	MPa	ASTM D638, ISO 527-2
Tensile Strength (Yield, 23°C)	45.0	MPa	ASTM D638, ISO 527-2
Tensile Strain			
Yield, 23°C	2.6	%	ISO 527-2
Break	2.6	%	ASTM D638
Nominal Tensile Strain at Break (23°C)	10	%	ISO 527-2
Flexural Modulus	2300	MPa	ASTM D790
Flexural Strength	65.0	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	8.0	kJ/m ²	
23°C	22	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	100	kJ/m ²	
23°C	180	kJ/m ²	
Notched Izod Impact			
-30°C	59	J/m	ASTM D256
-18°C	100	J/m	ASTM D256
23°C	300	J/m	ASTM D256
-30°C	8.0	kJ/m ²	ISO 180/A
23°C	26	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	90.6	°C	ASTM D648
0.45 MPa, Annealed	104	°C	ASTM D648
0.45 MPa, Annealed	99.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	77.8	°C	ASTM D648
1.8 MPa, Annealed	98.9	°C	ASTM D648
1.8 MPa, Annealed	94.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	105	°C	ISO 306/A50

--	96.0	°C	ISO 306/B50
CLTE - Flow	8.0E-5 to 1.1E-4	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.17	W/m/K	DIN 52612
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity			
--	> 1.0E+15	ohms·cm	ASTM D257
--	1.0E+15	ohms·cm	IEC 60093
Dielectric Constant			
1.00 mm, 1 MHz	2.80		ASTM D150
100 Hz	2.90		IEC 60250
1 MHz	2.80		IEC 60250
Dissipation Factor			IEC 60250
100 Hz	4.8E-3		
1 MHz	7.9E-3		
Optical	Nominal Value	Unit	Test Method
Yellowness Index	13	YI	DIN 6167
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	220 to 260	°C	
Mold Temperature	30.0 to 60.0	°C	
Injection Velocity	200	mm/sec	

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