

Terluran® GP-25

Acrylonitrile Butadiene Styrene
INEOS Styrolution Group GmbH

Message:

Terluran GP-25 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 Surface Finish		
	High Gloss		
	High Impact Resistance		
	Medium Flow		
Uses	Appliances		
	Automotive Applications		
	General Purpose		
	Household Goods		
	Housings		
	Sanitary Products		
Toys			
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	25.0	cm ³ /10min	ISO 1133
Molding Shrinkage	0.40 to 0.70	%	ISO 294-4
Water Absorption			ISO 62
Saturation, 23°C	0.95	%	
Equilibrium, 23°C, 50% RH	0.24	%	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	99.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2300	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	44.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	2.4	%	ISO 527-2
Nominal Tensile Strain at Break (23°C)	12	%	ISO 527-2
Flexural Stress	65.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	7.0	kJ/m ²	
23°C	19	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	90	kJ/m ²	
23°C	130	kJ/m ²	
Notched Izod Impact Strength			ISO 180/A
-30°C	7.0	kJ/m ²	
23°C	22	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Annealed	97.0	°C	ISO 75-2/B
1.8 MPa, Annealed	93.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	103	°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
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Optical	Nominal Value	Unit	Test Method
Yellowness Index	15	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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