

**Arnite® TV4 220**

Envalior - Polybutylene Terephthalate

## General Information

**Product Description**

10% Glass Fiber Reinforced

**General**

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight
Processing Method	• Injection Molding
Resin ID	• PBT-GF10

 Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm <sup>3</sup>	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	21	cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.5	%	
Flow	0.85	%	
Water Absorption (Saturation, 73°F)	0.35	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	0.16	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	667000	psi	ISO 527-1
Tensile Stress (Break)	13100	psi	ISO 527-2
Tensile Strain (Break)	4.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	1.9	ft·lb/in <sup>2</sup>	
73°F	1.9	ft·lb/in <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	14	ft·lb/in <sup>2</sup>	
73°F	14	ft·lb/in <sup>2</sup>	
Thermal	Nominal Value	Unit	Test Method
Melting Temperature <sup>2</sup>	437	°F	ISO 11357-3
CLTE - Flow	3.3E-5	in/in/°F	ISO 11359-2
CLTE - Transverse	4.4E-5	in/in/°F	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+13	ohms·m	IEC 62631-3-1

## Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 10°C/min
