

Arnite® TZ6 280 (BK22003)

Envalior - Polybutylene Terephthalate

General Information
Product Description

20% Glass Fiber Reinforced, 20% Glass Beads Reinforced

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Bead\Glass Fiber, 40% Filler by Weight
Processing Method	• Injection Molding
Resin ID	• PBT-(GF+GB)40

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.63	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.0	%	
Flow	0.40	%	
Water Absorption (Saturation, 73°F)	0.25	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	0.15	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.32E+6	psi	ISO 527-1
Tensile Stress (Break)	14500	psi	ISO 527-2
Tensile Strain (Break)	2.5	%	ISO 527-2
Flexural Modulus	1.28E+6	psi	ISO 178
Flexural Stress	23200	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	2.6	ft·lb/in ²	
73°F	3.3	ft·lb/in ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	14	ft·lb/in ²	
73°F	17	ft·lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	410	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	401	°F	ISO 75-2/A
Melting Temperature ²	437	°F	ISO 11357-3
CLTE - Flow	1.7E-5	in/in/°F	ISO 11359-2
CLTE - Transverse	7.2E-5	in/in/°F	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+13	ohms·m	IEC 62631-3-1
Comparative Tracking Index	250	V	IEC 60112

Notes
¹ Typical properties: these are not to be construed as specifications.

² 10°C/min
