

Arnite® AV2 370 XL-T

Envalior - Polyethylene Terephthalate

General Information
Product Description

35% Glass Fiber Reinforced, Low Outgassing, Thermal conductive material

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 35% Filler by Weight
Features	• Low to No Outgassing • Thermally Conductive
Automotive Specifications	• GM GMW15702-023201-PET-GF35
Processing Method	• Injection Molding
Resin ID	• PET-GF35

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.67	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.90	%	
Flow	0.30	%	
Water Absorption (Saturation, 73°F)	0.45	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	0.18	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2.03E+6	psi	ISO 527-1
Tensile Stress (Break)	21800	psi	ISO 527-2
Tensile Strain (Break)	1.5	%	ISO 527-2
Flexural Modulus	2.18E+6	psi	ISO 178
Flexural Stress	31900	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	3.3	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	19	ft·lb/in ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	482	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	455	°F	ISO 75-2/A
Melting Temperature ²	491	°F	ISO 11357-3
CLTE - Flow	1.4E-5	in/in/°F	ISO 11359-2
CLTE - Transverse	2.2E-5	in/in/°F	ISO 11359-2
Thermal Conductivity			ASTM E1461
-- ³	4.5	Btu·in/hr/ft ² /°F	
-- ⁴	11	Btu·in/hr/ft ² /°F	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	3.0E+11	ohms·m	IEC 62631-3-1
Electric Strength	28	V/mil	IEC 60243-1
Dielectric Constant (1.00 GHz)	14.0		IEC 60250

