Arnite® A06 700

Envalior - *Polyethylene Terephthalate*

General Information

Product Description			
Very High Viscosity, Impact Modified, Extrusion, Food Contact Quality			
General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Impact Modifier		
Features	• Food Contact Acceptable	• High Viscosity	• Impact Modified
Processing Method	• Extrusion	• Injection Molding	
Resin ID	• PET		

Properties [1]

Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.40	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (270°C/2.16 kg)	7.5	cm³/10min	ISO 1133
Water Absorption (Equilibrium, 73°F, 50% RH)	0.30	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	326000	psi	ISO 527-1
Tensile Stress (Yield)	7250	psi	ISO 527-2
Tensile Strain (Yield)	4.0	%	ISO 527-2
Nominal Tensile Strain at Break	> 50	%	ISO 527-2
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	2.4	ft·lb/in²	ISO 179/1eA
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	208	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	176	°F	ISO 75-2/A
Melting Temperature [2]	491	°F	ISO 11357-3
CLTE - Flow	4.2E-5	in/in/°F	ISO 11359-2
CLTE - Transverse	4.2E-5	in/in/°F	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	> 1.0E+13	ohms·m	IEC 62631-3-1
Electric Strength	560	V/mil	IEC 60243-1
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Melt Specific Heat	0.490	Btu/lb/°F	
Melt Thermal Conductivity	1.4	Btu·in/hr/ft²/°F	ASTM E1461
Additional Information	**Nominal Value**	**Unit**	**Test Method**
RSV - m-cresol, 1g/100ml	2.10		Internal Method

Notes

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

[2] 10°C/min