



Apec DP1-9339/5

Easy-flow grades / easy-release

Developmental product, easy flowing, easy to demold, softening temperature (VST/B 120)=158 °C

ISO Shortname

Property	Test Condition	Unit	Standard	Value
Rheological properties				
Melt flow rate		g/(10 min)	ASTM D 1238	41
Mechanical properties (23 °C/50 % r.h.)				
Tensile modulus	1 mm/min	lb/in ²	ASTM D 638	330000
Tensile stress at yield		lb/in ²	ASTM D 638	9400
Tensile elongation at yield		%	ASTM D 638	7
Thermal properties				
Deflection temperature under load, Unannealed	264 psi; 0.250 in	°F	ASTM D 648	280
Deflection temperature under load, Unannealed	66 psi; 0.250 in	°F	ASTM D 648	304
Vicat softening temperature	50 N, 120 °C/h	°F	ASTM D 1525	316
Coefficient of linear thermal expansion, flow/cross-flow		in/in/°F	ASTM D 696	3.9 E-05
UL94 Flame Class	Thickness tested: 1.5 mm	Class	UL 94	HB
UL94 Flame Class	Thickness tested: 3.0 mm	Class	UL 94	HB
Oxygen index		%	ASTM D 2863	24
Electrical properties (23 °C/50 % r.h.)				
Dissipation factor, Tinfoil electrodes	60 Hz	-	ASTM D 150	0.001
Dissipation factor, Tinfoil electrodes	1 MHz	-	ASTM D 150	0.01
Volume resistivity, Tinfoil electrodes		Ohm-m	ASTM D 257	>1.0 E+16
Surface resistivity		Ohm	ASTM D 257	>1.0 E+16
Dielectric strength	Short time under oil at 73 °F; 0.125 in	V/mil	ASTM D 149	890
Dielectric constant, Tinfoil electrodes	60 Hz	-	ASTM D 150	3.0
Dielectric constant, Tinfoil electrodes	1 MHz	-	ASTM D 150	3.0
Other properties (23 °C)				
Water absorption	73 °F; immersion to saturation	%	ASTM D 570	0.4
Water absorption	73 °F; immersion 24 h	%	ASTM D 570	0.2
Density		lb/in ³	ASTM D 792	0.042
Specific gravity		-	ASTM D 792	1.18
Material specific properties				
Refractive index		-	ASTM D 542	1.578
Luminous transmittance (clear transparent materials)	0.125 in	%	ASTM D 1003	88

