Apec® 1697

Easy-flow grades / UV-stabilized, easy-release

MVR (330°C/2.16kg) 45 cm³/10 min; low viscosity; easy release; UV stabilized; 'softening temperature (VST/B 120)=157°C; injection molding - melt temperature 320 - 340°C

ISO Shortname

	Property	Test Condition	Unit	Standard	typical Value
					-
Rheological properties					
C	Melt volume-flow rate	330 °C; 2.16 kg	cm³/10 min	ISO 1133	45
	Melt mass-flow rate	330 °C; 2.16 kg	g/10 min	ISO 1133	46
Mechanical properties (23 °C/50 % r. h.)					
C	Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	2400
C	Yield stress	50 mm/min	MPa	ISO 527-1,-2	68
C	Yield strain	50 mm/min	%	ISO 527-1,-2	6.2
C	Nominal strain at break	50 mm/min	%	ISO 527-1,-2	>50
C	Charpy impact strength	23 °C	kJ/m²	ISO 179-1eU	N
C	Charpy impact strength	-30 °C	kJ/m²	ISO 179-1eU	N
Thermal properties					
C	Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	137
C	Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	149
	Vicat softening temperature	50 N; 120 °C/h	°C	ISO 306	157
	Relative temperature index (Tensile strength)		°C	UL 746B	140
	Relative temperature index (Tensile impact strength)		°C	UL 746B	130
	Relative temperature index (Electric strength)		°C	UL 746B	140
C	Coefficient of linear thermal expansion, parallel	23 to 55 °C	10^{-4}/K	ISO 11359-1,-2	0.65
C	Coefficient of linear thermal expansion, transverse	23 to 55 °C	10^{-4}/K	ISO 11359-1,-2	0.65
C	Burning behavior UL 94 (1.5 mm)	1.5 mm	Class	UL 94	HB
C	Burning behavior UL 94	3.0 mm	Class	UL 94	HB
	Burning behavior UL 94-5V		Class	UL 94	-
Electrical properties (23 °C/50 % r. h.)					
C	Relative permittivity	100 Hz	-	IEC 60250	3
C	Relative permittivity	1 MHz	-	IEC 60250	2,9
C	Dissipation factor	100 Hz	10^{-4}	IEC 60250	10
C	Dissipation factor	1 MHz	10^{-4}	IEC 60250	90
C	Volume resistivity		Ohm·m	IEC 60093	1E15
C	Surface resistivity		Ohm	IEC 60093	1E16
C	Electrical strength	1 mm	kV/mm	IEC 60243-1	35
C	Comparative tracking index CTI	Solution A	Rating	IEC 60112	250
	Comparative tracking index CTI M	Solution B	Rating	IEC 60112	125
	Electrolytic corrosion		Rating	IEC 60426	A1
Other properties (23 °C)					
C	Water absorption (saturation value)	Water at 23 °C	%	ISO 62	0.3
C	Water absorption (equilibrium value)	23 °C; 50 % r. h.	%	ISO 62	0.12
C	Density		kg/m³	ISO 1183-1	1180
Material specific properties					
	Refractive index	Procedure A	-	ISO 489	1.578
	Luminous transmittance (clear transparent materials)	1 mm	%	ISO 13468-2	89

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	Property	Test Condition	Unit	Standard	typical Value
Processing conditions for test specimens					
C	Injection molding-Melt temperature		°C	ISO 294	330
C	Injection molding-Mold temperature		°C	ISO 294	100
C	Injection molding-Injection velocity		mm/s	ISO 294	200

C These property characteristics are taken from the CAMPUS plastics data bank and are based on the international catalogue of basic data for plastics according to ISO 10350.

Impact properties: N = non-break, P = partial break, C = complete break

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