

# **Apec® 2095**

### Easy-flow grades / easy-release

MVR (330°C/2.16kg) 8 cm³/10 min; high viscosity; easy release; 'softening temperature (VST/B 120)=203 °C; injection molding - melt temperature 330 - 340°C; Covers for brake lights and indicator lights; Recessed light fixtures/reflectors; Blade-type fuses; Headlamp reflectors/bezels

### ISO Shortname

Property	Test Condition	Unit	Standard	typical Value
theological properties				
Melt volume-flow rate	330 °C; 2.16 kg	cm³/10 min	ISO 1133	8
Melt mass-flow rate	330 °C; 2.16 kg	g/10 min	ISO 1133	8
Molding shrinkage, parallel	60x60x2 mm	%	ISO 294-4	0.9
Molding shrinkage, normal	60x60x2 mm	%	ISO 294-4	0.9
echanical properties (23 °C/50 % r. h.)			<b>,</b>	
Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	2450
Yield stress	50 mm/min	MPa	ISO 527-1,-2	76
Yield strain	50 mm/min	%	ISO 527-1,-2	6.9
Nominal strain at break	50 mm/min	%	ISO 527-1,-2	>50
Charpy impact strength	23 °C	kJ/m²	ISO 179-1eU	N
Charpy impact strength	-30 °C	kJ/m²	ISO 179-1eU	N
Flexural modulus	2 mm/min	MPa	ISO 178	2450
Flexural strength	2 mm/min	MPa	ISO 178	110
Ball indentation hardness		N/mm²	ISO 2039-1	130
nermal properties		<b>V.</b>	".	
Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	173
Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	192
Vicat softening temperature	50 N; 120 °C/h	°C	ISO 306	203
Relative temperature index (Tensile strength)	· ·	°C	UL 746B	150
Relative temperature index (Tensile impact strength)		°C	UL 746B	130
Relative temperature index (Electric strength)		°C	UL 746B	150
Coefficient of linear thermal expansion, parallel	23 to 55 °C	10 <sup>-4</sup> /K	ISO 11359-1,-2	0.65
Coefficient of linear thermal expansion, transverse	23 to 55 °C	10 <sup>-4</sup> /K	ISO 11359-1,-2	0.65
Burning behavior UL 94 (1.5 mm)	1.5 mm	Class	UL 94	НВ
Oxygen index	Method A	%	ISO 4589-2	25
Glow wire test (GWFI)	2.0 mm	°C	IEC 60695-2-12	800
ectrical properties (23 °C/50 % r. h.)				
Relative permittivity	100 Hz	-	IEC 60250	2.9
Relative permittivity	1 MHz		IEC 60250	2.8
Dissipation factor	100 Hz	10 <sup>-4</sup>	IEC 60250	10
Dissipation factor	1 MHz	10-4	IEC 60250	90
·	1 10112			1E15
Volume resistivity		Ohm-m	IEC 60093	
Surface resistivity	14	Ohm kV/mm	IEC 60093	1E16
Electrical strength	1 mm Solution A		IEC 60243-1	35 600
Comparative tracking index CTI Comparative tracking index CTI M	Solution B	Rating Rating	IEC 60112	
	Solution B	<del>-</del>		100
Electrolytic corrosion		Rating	IEC 60426	A1
ther properties (23 °C)		1	line	
Water absorption (saturation value)	Water at 23 °C	%	ISO 62	0.3
Water absorption (equilibrium value)	23 °C; 50 % r. h.	%	ISO 62	0.12
Density		kg/m³	ISO 1183-1	1130
aterial specific properties				
Refractive index	Procedure A	-	ISO 489	1.566



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P	roperty	Test Condition	Unit	Standard	typical Value				
Processing conditions for test specimens									
Clr	njection molding-Melt temperature		°C	ISO 294	330				
Clr	njection molding-Mold temperature		°C	ISO 294	100				
Clr	njection 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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### Disclaimer

Typical value

These values are typical values only. Unless explicitly agreed in written form, the do not constitute a binding material specification or warranted values. Values may be affected by the design of the mold/die, the processing conditions and coloring/pigmentation of the product. Unless specified to the contrary, the property values given have been established on standardized test specimens at room temperature.

### General

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