CALIBRE™ 303EP-31

PC — Trinseo

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	**31**	g/10min	ISO 1133
Temperature	**300**	°C	-
Load	**1.2**	kg	-
Molding shrinkage, parallel	**0.6**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**2300**	MPa	ISO 527
Yield stress	**60**	MPa	ISO 527
Yield strain	**6**	%	ISO 527
Stress at break	**71**	MPa	ISO 527
Strain at break	**>50**	%	ISO 527
Flexural modulus, 23°C	**2400**	MPa	ISO 178
Charpy notched impact strength, +23°C	**15**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**11**	kJ/m²	ISO 179/1eA
Izod notched impact strength, +23°C	**69**	kJ/m²	ISO 180/1A
Rockwell hardness	**R118**	-	ISO 2039-2

Thermal properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, B	**145**	°C	ISO 306
Coeff. of linear therm. expansion, parallel	**70**	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	**V-2**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	-
Burning behav. at thickness h	**V-2**	class	IEC 60695-11-10
Thickness tested	**3.0**	mm	-

Electrical properties	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 100Hz	**3**	-	IEC 62631-2-1
Relative permittivity, 1MHz	**3**	-	IEC 62631-2-1
Dissipation factor, 1MHz	**20**	E-4	IEC 62631-2-1
Volume resistivity	**>1E13**	Ohm*m	IEC 62631-3-1
Electric strength	**17**	kV/mm	IEC 60243-1
Comparative tracking index	**250**	-	IEC 60112

Optical properties	Value	Unit	Test Standard
ASTM Data			
Haze	**1**	%	ASTM D 1003
Light Transmittance	**89**	%	ASTM D 1003
Index of Refraction	**1.59**	-	ASTM D 542

Other properties	Value	Unit	Test Standard
Humidity absorption	**0.36**	%	Sim. to ISO 62
Density	**1200**	kg/m³	ISO 1183

Characteristics

Processing
Injection Molding

Applications
Electrical and Electronical

Additives
Release agent

Regional Availability
Europe, Near East/Africa

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Special Characteristics

High impact or impact modified, U.V. stabilized or stable to weather, Heat stabilized or stable to heat

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