CALIBRE™ 303-15

PC Trinseo

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	**15**	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	**70**	MPa	ISO 527
Strain at break	**>50**	%	ISO 527
Flexural modulus, 23°C	**2400**	MPa	ISO 178
Charpy notched impact strength, +23°C	**25**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**12**	kJ/m²	ISO 179/1eA
Izod notched impact strength, +23°C	**83**	kJ/m²	ISO 180/1A
Rockwell hardness	**R118**	-	ISO 2039-2

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**124**	°C	ISO 75-1/-2
Vicat softening temperature, B	**148**	°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	**HB**	class	IEC 60695-11-10
Thickness tested	**3.0**	mm	-
Oxygen index	**26**	%	ISO 4589-1/-2

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
Surface resistivity	**>1E15**	Ohm	IEC 62631-3-2
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	**0.32**	%	Sim. to ISO 62
Density	**1200**	kg/m³	ISO 1183

Characteristics

Additives

Release agent

Applications

Automotive, Electrical and Electronical

Special Characteristics

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

Regional Availability

North America, Europe, South and Central America, Near East/Africa