

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	6	g/10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	6	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955
Mechanical properties			
ISO Data			
Tensile Modulus	2300	MPa	ISO 527
Yield stress	60	MPa	ISO 527
Yield strain	6	%	ISO 527
Stress at break	72	MPa	ISO 527
Strain at break	>50	%	ISO 527
Flexural modulus, 23°C	2400	MPa	ISO 178
Charpy notched impact strength, +23°C	55	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	N	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	93	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2413	MPa	ASTM D 638
Tensile Strength at Yield	60	MPa	ASTM D 638
Tensile Strength at Break	72.4	MPa	ASTM D 638
Elongation at Yield	6	%	ASTM D 638
Elongation at Break	150	%	ASTM D 638
Flexural Modulus	2413	MPa	ASTM D 790
Flexural Strength	96.5	MPa	ASTM D 790
Rockwell Hardness	R 118	-	ASTM D 785
Izod Impact notched, 1/8 in	907	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256
Thermal properties			
ISO Data			
Temp. of deflection under load, 1.80 MPa	126	°C	ISO 75-1/-2
Vicat softening temperature, B	151	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.6	mm	-
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	3.2	mm	-
Oxygen index	26	%	ISO 4589-1/-2
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	1.59	mm	-
Coefficient of Thermal Expansion, MD	68.4	E-6/K	ASTM D 696
DTUL @ 264 psi	129	°C	ASTM D 648
Vicat Temperature	151	°C	ASTM D 1525
Electrical properties			
ISO Data			
Electric strength	17	kV/mm	IEC 60243-1
Comparative tracking index	250	-	IEC 60112
ASTM Data			
Dielectric Strength, Short Time	16.5	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	0.002	-	ASTM D 150

CALIBRE™ 302-6

PC

Trinseo

Dielectric Constant, 60 Hz	3	-	ASTM D 150
Dielectric Constant, 1 MHz	3	-	ASTM D 150
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257

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/m ³	ISO 1183
Water Absorption, 24hr	0.15	%	ASTM D 570
Water Absorption, Equilibrium	0.32	%	ASTM D 570
Density	1200	kg/m ³	ASTM D 792

Characteristics**Processing**

Blow Molding

Special Characteristics

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

Features

Melt Strength

Applications

Automotive, Electrical and Electronical

Regional Availability

North America, South and Central America