CALIBRE™ 5101-8

PC-GX10 Trinseo

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	**8**	g/10min	ISO 1133
Temperature	**300**	°C	-
Load	**1.2**	kg	-
Molding shrinkage, parallel	**0.3**	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	**8**	g/10min	ASTM D 1238
Temperature	**300**	°C	-
Load	**1.2**	kg	-
Mold Shrinkage, MD	**0.0035**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**3380**	MPa	ISO 527
Yield stress	**62**	MPa	ISO 527
Stress at break	**61**	MPa	ISO 527
Strain at break	**6**	%	ISO 527
Flexural modulus, 23°C	**3170**	MPa	ISO 178
ASTM Data			
Tensile Modulus	**3378**	MPa	ASTM D 638
Tensile Strength at Yield	**62.1**	MPa	ASTM D 638
Tensile Strength at Break	**60.7**	MPa	ASTM D 638
Elongation at Break	**6**	%	ASTM D 638
Flexural Modulus	**3172**	MPa	ASTM D 790
Flexural Strength	**93.8**	MPa	ASTM D 790
Rockwell Hardness	**R 122**	-	ASTM D 785
Izod Impact notched, 1/8 in	**80.1**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**134**	°C	ISO 75-1/-2
Vicat softening temperature, B	**160**	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	**V-2**	class	IEC 60695-11-10
Thickness tested	**1.6**	mm	-
Burning behav. at thickness h	**V-0**	class	IEC 60695-11-10
Thickness tested	**3.2**	mm	-
Oxygen index	**32**	%	ISO 4589-1/-2
ASTM Data			
UL 94 Flame rating	**V-2**	-	UL 94
Thickness tested	**1.59**	mm	-
Coefficient of Thermal Expansion, MD	**37.8**	E-6/K	ASTM D 696
DTUL @ 264 psi	**134**	°C	ASTM D 648
Vicat Temperature	**160**	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Humidity absorption	**0.25**	%	Sim. to ISO 62
Density	**1270**	kg/m³	ISO 1183
Water Absorption, 24hr	**0.15**	%	ASTM D 570
Water Absorption, Equilibrium	**0.25**	%	ASTM D 570
Density	**1270**	kg/m³	ASTM D 792

Characteristics

Additives

Release agent

Applications

IT / Business Machine, Medical

Special Characteristics
Heat stabilized or stable to heat

Regional Availability
North America, South and Central America