CALIBRE™ 5201-12

PC-GX20 Trinseo

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	**12**	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	**12**	g/10min	ASTM D 1238
Temperature	**300**	°C	-
Load	**1.2**	kg	-
Mold Shrinkage, MD	**0.003**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**5170**	MPa	ISO 527
Yield stress	**82.7**	MPa	ISO 527
Yield strain	**2.6**	%	ISO 527
Stress at break	**82.7**	MPa	ISO 527
Strain at break	**2.6**	%	ISO 527
Flexural modulus, 23°C	**4820**	MPa	ISO 178
ASTM Data			
Tensile Modulus	**5171**	MPa	ASTM D 638
Tensile Strength at Yield	**8.27**	MPa	ASTM D 638
Tensile Strength at Break	**8.27**	MPa	ASTM D 638
Elongation at Yield	**2.6**	%	ASTM D 638
Elongation at Break	**3**	%	ASTM D 638
Flexural Modulus	**4826**	MPa	ASTM D 790
Flexural Strength	**148**	MPa	ASTM D 790
Rockwell Hardness	**R 122**	-	ASTM D 785
Izod Impact notched, 1/8 in	**107**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**138**	°C	ISO 75-1/-2
Vicat softening temperature, B	**158**	°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	**3.0**	mm	-
ASTM Data			
UL 94 Flame rating	**V-2**	-	UL 94
Thickness tested	**1.59**	mm	-
DTUL @ 264 psi	**138**	°C	ASTM D 648
Vicat Temperature	**159**	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	**1360**	kg/m³	ISO 1183
Density	**1360**	kg/m³	ASTM D 792

Characteristics

Applications

Electrical and Electronical, Medical

Regional Availability

North America, Europe, Asia Pacific, Near East/Africa