CALIBRE™ 2061-6

PC Trinseo

Processing/Physical Characteristics	Value	Unit	Test Standard
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	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	**2413**	MPa	ASTM D 638
Tensile Strength at Yield	**62.1**	MPa	ASTM D 638
Tensile Strength at Break	**68.3**	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	**854**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**N**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Oxygen index	**26**	%	ISO 4589-1/-2
ASTM Data			
UL 94 Flame rating	**V-2**	-	UL 94
Thickness tested	**1.5**	mm	-
Coefficient of Thermal Expansion, MD	**68.4**	E-6/K	ASTM D 696
DTUL @ 264 psi	**129**	°C	ASTM D 648
Vicat Temperature	**156**	°C	ASTM D 1525

Electrical properties	Value	Unit	Test Standard
ISO Data			
Electric strength	**17**	kV/mm	IEC 60243-1
ASTM Data			
Dielectric Strength, Short Time	**16.5**	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	**0.002**	-	ASTM D 150
Dielectric Constant, 60 Hz	**3**	-	ASTM D 150
Dielectric Constant, 1 MHz	**3**	-	ASTM D 150
Volume Resistivity	**>1E15**	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	**0.15**	%	ASTM D 570
Water Absorption, Equilibrium	**0.32**	%	ASTM D 570
Density	**1200**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**121**	°C	-
Pre-drying - Time	**3**	h	-
Melt temperature	**299 - 327**	°C	-
Mold temperature	**76.7 - 110**	°C	-
Zone 1	**271 - 288**	°C	-
Zone 2	**277 - 299**	°C	-
Zone 3	**299 - 327**	°C	-
Nozzle temperature	**299 - 327**	°C	-
Screw speed	**40 - 70**	rpm	-

Characteristics

Processing
Injection Molding

Delivery form
Black

Additives
Release agent

Chemical Resistance
Oxidation Resistance

Applications
Medical

Regional Availability
North America