EMERGE™ PC 4701-15

PC-GF10 Trinseo

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	**15**	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
ASTM Data			
Tensile Modulus	**3654**	MPa	ASTM D 638
Tensile Strength at Yield	**65.5**	MPa	ASTM D 638
Tensile Strength at Break	**62.7**	MPa	ASTM D 638
Elongation at Break	**4**	%	ASTM D 638
Flexural Modulus	**3792**	MPa	ASTM D 790
Flexural Strength	**109**	MPa	ASTM D 790
Rockwell Hardness	**R 122**	-	ASTM D 785
Izod Impact notched, 1/8 in	**107**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**40**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Burning behav. 5V at thickness h	**5VA**	class	IEC 60695-11-20
Thickness tested	**3.2**	mm	-
ASTM Data			
UL 94 Flame rating	**V-0**	-	UL 94
Thickness tested	**1.6**	mm	-
Coefficient of Thermal Expansion, MD	**37.8**	E-6/K	ASTM D 696
DTUL @ 264 psi	**141**	°C	ASTM D 648
Vicat Temperature	**160**	°C	ASTM D 1525
Limiting Oxygen Index	**38**	%	ASTM D 2863

Other properties	Value	Unit	Test Standard
Density	**1270**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**121**	°C	-
Pre-drying - Time	**3 - 4**	h	-
Melt temperature	**288 - 316**	°C	-
Mold temperature	**82.2 - 116**	°C	-

Characteristics

Processing
Injection Molding

Applications
Electrical and Electronical

Special Characteristics
Flame retardant, Heat stabilized or stable to heat

Regional Availability
Asia Pacific