EMERGE™ PC 4330-22

PC — Trinseo

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	**22**	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	**2344**	MPa	ASTM D 638
Tensile Strength at Yield	**60**	MPa	ASTM D 638
Tensile Strength at Break	**65.5**	MPa	ASTM D 638
Elongation at Break	**120**	%	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	**747**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**N**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
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	**126**	°C	ASTM D 648
Limiting Oxygen Index	**26**	%	ASTM D 2863

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Dielectric Strength, Short Time	**17**	kV/mm	ASTM D 149
Dissipation Factor, 60 Hz	**0.001**	-	ASTM D 150
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
Density	**1200**	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	**260 - 277**	°C	-
Mold temperature	**71.1 - 93.3**	°C	-

Characteristics

Processing

Injection Molding

Applications

IT / Business Machine, Electrical and Electronical

Special Characteristics

Light stabilized or stable to light, U.V. stabilized or stable to weather, Heat stabilized or stable to heat

Regional Availability

Asia Pacific