

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt flow index, MFI	10	g/10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Melt Flow Index, MFI	10	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	2200	MPa	ISO 527
Yield stress	60	MPa	ISO 527
Yield strain	6	%	ISO 527
Stress at break	58	MPa	ISO 527
Strain at break	>50	%	ISO 527
Flexural modulus, 23°C	2400	MPa	ISO 178
Izod notched impact strength, +23°C	10	kJ/m <sup>2</sup>	ISO 180/1A
Rockwell hardness	R123	-	ISO 2039-2
<b>ASTM Data</b>			
Tensile Modulus	2206	MPa	ASTM D 638
Tensile Strength at Yield	60	MPa	ASTM D 638
Tensile Strength at Break	57.9	MPa	ASTM D 638
Elongation at Yield	6.2	%	ASTM D 638
Elongation at Break	110	%	ASTM D 638
Flexural Modulus	2399	MPa	ASTM D 790
Flexural Strength	93.8	MPa	ASTM D 790
Rockwell Hardness	R 123	-	ASTM D 785
Izod Impact notched, 1/8 in	747	J/m	ASTM D 256
<b>Thermal properties</b>			
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	125	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	139	°C	ISO 75-1/-2
Vicat softening temperature, A	150	°C	ISO 306
Vicat softening temperature, B	144	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.6	mm	-
Oxygen index	35	%	ISO 4589-1/-2
<b>ASTM Data</b>			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	1.59	mm	-
Coefficient of Thermal Expansion, MD	64.8	E-6/K	ASTM D 696
DTUL @ 66 psi	139	°C	ASTM D 648
DTUL @ 264 psi	127	°C	ASTM D 648
Vicat Temperature	149	°C	ASTM D 1525
Limiting Oxygen Index	35	%	ASTM D 2863
<b>Other properties</b>			
<b>Value</b>			
Density	1200	kg/m <sup>3</sup>	ISO 1183
Density	1200	kg/m <sup>3</sup>	ASTM D 792
<b>Processing Recommendation Injection Molding</b>			
<b>Value</b>			
Pre-drying - Temperature	121	°C	-
Pre-drying - Time	3 - 4	h	-

**EMERGE™ PC 8600-10**

PC

Trinseo

Melt temperature	<b>271 - 288</b>	°C	-
Mold temperature	<b>65.6 - 98.9</b>	°C	-

**Characteristics****Processing**

Injection Molding

**Applications**

IT / Business Machine, Electrical and Electronical

**Special Characteristics**

Flame retardant, Phosphorus-free

**Regional Availability**

Asia Pacific