

**EMERGE™ PC/ABS 7100 MED**

(PC+ABS)

Trinseo

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	4.5	g/10min	ASTM D 1238
Temperature	230	°C	-
Load	3.8	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Tensile Modulus	2210	MPa	ASTM D 638
Tensile Strength at Yield	50.3	MPa	ASTM D 638
Elongation at Yield	4	%	ASTM D 638
Elongation at Break	50	%	ASTM D 638
Flexural Modulus	2340	MPa	ASTM D 790
Flexural Strength	80	MPa	ASTM D 790
Rockwell Hardness	R 112	-	ASTM D 785
Izod Impact notched, 1/8 in	480	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	290	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	1	mm	-
Coefficient of Thermal Expansion, MD	76	E-6/K	ASTM D 696
DTUL @ 66 psi	116	°C	ASTM D 648
DTUL @ 264 psi	95	°C	ASTM D 648
Vicat Temperature	133	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1110	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	3 - 4	h	-
Melt temperature	238 - 266	°C	-
Mold temperature	49 - 91	°C	-

**Characteristics****Processing**

Injection Molding

**Delivery form**

Natural Color

**Certifications**

Medical Grade, Biocompatibility ISO 10993

**Applications**

Medical

**Regional Availability**

North America, Europe, Near East/Africa