MAGNUM™ 8391 MED

ABS Trinseo

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	**28**	g/10min	ISO 1133
Temperature	**220**	°C	-
Load	**10**	kg	-
Molding shrinkage, parallel	**0.6**	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	**8**	g/10min	ASTM D 1238
Temperature	**230**	°C	-
Load	**3.8**	kg	-
Mold Shrinkage, MD	**0.0055**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**2340**	MPa	ISO 527
Yield stress	**45**	MPa	ISO 527
Yield strain	**2.5**	%	ISO 527
Flexural modulus, 23°C	**2400**	MPa	ISO 178
Flexural strength	**70**	MPa	ISO 178
Charpy notched impact strength, +23°C	**19**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**9**	kJ/m²	ISO 179/1eA
Izod notched impact strength, +23°C	**19**	kJ/m²	ISO 180/1A
Izod notched impact strength	**9**	kJ/m²	ISO 180/1A
Temperature	**-30**	°C	-
ASTM Data			
Tensile Strength at Yield	**48**	MPa	ASTM D 638
Tensile Strength at Break	**35**	MPa	ASTM D 638
Elongation at Yield	**2.7**	%	ASTM D 638
Elongation at Break	**8.7**	%	ASTM D 638
Flexural Modulus	**2480**	MPa	ASTM D 790
Flexural Strength	**75**	MPa	ASTM D 790
Rockwell Hardness	**R 108**	-	ASTM D 785
Izod Impact notched, 1/8 in	**230**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**95**[ann.]	°C	ISO 75-1/-2
Vicat softening temperature, B	**95**	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	**HB**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	-
Burning behav. at thickness h	**HB**	class	IEC 60695-11-10
Thickness tested	**3.0**	mm	-
ASTM Data			
DTUL @ 66 psi	**87**	°C	ASTM D 648
DTUL @ 264 psi	**74**	°C	ASTM D 648
Vicat Temperature	**99**	°C	ASTM D 1525

ann.: annealed

Other properties	Value	Unit	Test Standard
Density	**1050**	kg/m³	ISO 1183
Bulk density	**650**	kg/m³	-
Density	**1050**	kg/m³	ASTM D 792

Characteristics

Certifications

Medical Grade, Biocompatibility ISO 10993

Regional Availability

North America, Europe, Near East/Africa

Applications
Medical