EMERGE™ PC 8430-22

PC Trinseo

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	**22**	g/10min	ISO 1133
Temperature	**300**	°C	-
Load	**1.2**	kg	-
Molding shrinkage, parallel	**0.6**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**2400**	MPa	ISO 527
Yield stress	**60**	MPa	ISO 527
Yield strain	**6**	%	ISO 527
Stress at break	**70**	MPa	ISO 527
Strain at break	**>50**	%	ISO 527
Flexural modulus, 23°C	**2350**	MPa	ISO 178
Charpy notched impact strength, +23°C	**20**	kJ/m²	ISO 179/1eA
Izod notched impact strength, +23°C	**60**	kJ/m²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**122**	°C	ISO 75-1/-2
Vicat softening temperature, B	**147**	°C	ISO 306
Coeff. of linear therm. expansion, parallel	**70**	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	**V-2**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	-
Burning behav. at thickness h	**V-0**	class	IEC 60695-11-10
Thickness tested	**3.0**	mm	-
Oxygen index	**35**	%	ISO 4589-1/-2

Electrical properties	Value	Unit	Test Standard
ISO Data			
Volume resistivity	**>1E13**	Ohm*m	IEC 62631-3-1
Surface resistivity	**>1E15**	Ohm	IEC 62631-3-2
Electric strength	**17**	kV/mm	IEC 60243-1
Comparative tracking index	**225**	-	IEC 60112

Optical properties	Value	Unit	Test Standard
ASTM Data			
Light Transmittance	**89**	%	ASTM D 1003

Other properties	Value	Unit	Test Standard
Density	**1200**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**120**	°C	-
Pre-drying - Time	**3 - 4**	h	-
Melt temperature	**≥300**	°C	-
Mold temperature	**70 - 100**	°C	-

Characteristics

Processing

Injection Molding

Applications

IT / Business Machine, Electrical and Electronical, Encapsulation

Additives

Release agent

Regional Availability

Europe, Near East/Africa

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Special Characteristics

Flame retardant, Phosphorus-free, U.V. stabilized or stable to weather, Heat stabilized or stable to heat, Transparent

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