Bayblend® T85 BSR

(PC+ABS) Covestro Deutschland AG

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	**15**	cm³/10min	ISO 1133
Temperature	**260**	°C	-
Load	**5**	kg	-
Molding shrinkage, parallel	**0.6**	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.7**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**2130**	MPa	ISO 527
Yield stress	**51**	MPa	ISO 527
Yield strain	**5**	%	ISO 527
Stress at break	**56**	MPa	ISO 527
Strain at break	**>50**	%	ISO 527
Flexural modulus, 23°C	**2100**	MPa	ISO 178
Flexural strength	**81**	MPa	ISO 178
Charpy impact strength, +23°C	**N**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**N**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**65**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**60**	kJ/m²	ISO 179/1eA
Izod impact strength, +23°C	**N**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C	**50**	kJ/m²	ISO 180/1A
Izod notched impact strength	**40**	kJ/m²	ISO 180/1A
Temperature	**-30**	°C	-
Puncture - maximum force, +23°C	**4240**	N	ISO 6603-2
Puncture - maximum force, -30°C	**3900**	N	ISO 6603-2
Puncture energy, +23°C	**40**	J	ISO 6603-2
Puncture energy, -30°C	**20**	J	ISO 6603-2

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**104**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**127**	°C	ISO 75-1/-2
Vicat softening temperature, B	**127**	°C	ISO 306
Coeff. of linear therm. expansion, parallel	**80**	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**80**	E-6/K	ISO 11359-1/-2

Other properties	Value	Unit	Test Standard
Density	**1140**	kg/m³	ISO 1183

Test specimen production	Value	Unit	Test Standard
ISO Data			
Injection Molding, melt temperature	**270**	°C	ISO 294
Injection Molding, mold temperature	**80**	°C	ISO 294
Injection Molding, injection velocity	**240**	mm/s	ISO 294

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**95 - 110**	°C	-
Pre-drying - Time	**4**	h	-
Processing humidity	**≤0.02**	%	-
Melt temperature	**260 - 280**	°C	-
Mold temperature	**70 - 90**	°C	-

Characteristics

Processing
Injection Molding

Features
Anti Slip, Ductile

Special Characteristics
Heat stabilized or stable to heat

Regional Availability
North America, Europe, Asia Pacific, South and Central America, Near East/Africa