



Bayblend® T85 BSR
(PC+ABS)

Covestro Deutschland AG

Rheological properties	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
Impact Strength (Charpy), +23°C	no break	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	no break	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	65	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	60	kJ/m²	ISO 179/1eA
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
Flexural Modulus (23°C)	2100	MPa	ISO 178
Flexural strength	81	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	50	kJ/m²	ISO 180/1A
Notched Impact Strength (Izod)	40	kJ/m²	ISO 180/1A
Temperature	-30	°C	-
Impact Strength (Izod), 23°C	no break	kJ/m²	ISO 180/1U

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, 50°C/h 50N	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
ISO Data			
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 aging stabilized