

CALIBRE™ 503-5 TINT

PC

Trinseo

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	5	g/10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	5	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955
Mechanical properties			
ISO Data			
Tensile Modulus	2350	MPa	ISO 527
Yield stress	62	MPa	ISO 527
Yield strain	6	%	ISO 527
Stress at break	73	MPa	ISO 527
Flexural modulus, 23°C	2350	MPa	ISO 178
Charpy notched impact strength, +23°C	83	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	16	kJ/m ²	ISO 179/1eA
ASTM Data			
Tensile Modulus	2351	MPa	ASTM D 638
Tensile Strength at Yield	62	MPa	ASTM D 638
Tensile Strength at Break	73.1	MPa	ASTM D 638
Elongation at Yield	6	%	ASTM D 638
Flexural Modulus	2351	MPa	ASTM D 790
Flexural Strength	93.8	MPa	ASTM D 790
Izod Impact notched, 1/8 in	907	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	368	J/m	ASTM D 256
Temperature	-30	°C	-
Thermal properties			
ISO Data			
Glass transition temperature, 10°C/min	147	°C	ISO 11357-1/-2
Vicat softening temperature, A	151	°C	ISO 306
Vicat softening temperature, B	145	°C	ISO 306
ASTM Data			
Coefficient of Thermal Expansion, MD	68.4	E-6/K	ASTM D 696
Glass Transition Temperature	147	°C	ASTM E 1356
Optical properties			
ASTM Data			
Haze	1	%	ASTM D 1003
Light Transmittance	88	%	ASTM D 1003
Index of Refraction	1.59	-	ASTM D 542
Other properties			
Humidity absorption	0.32	%	Sim. to ISO 62
Density	1200	kg/m ³	ISO 1183
Water Absorption, 24hr	0.15	%	ASTM D 570
Water Absorption, Equilibrium	0.32	%	ASTM D 570
Density	1200	kg/m ³	ASTM D 792

Characteristics

Processing

Sheet Extrusion

Features

Melt Strength

Special Characteristics

U.V. stabilized or stable to weather

Regional Availability

Europe, Near East/Africa