Developmental DTF2502.04 ESU

PP Trinseo

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	**22**	g/10min	ISO 1133
Temperature	**230**	°C	-
Load	**2.16**	kg	-
Molding shrinkage, parallel	**0.8**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**2100**	MPa	ISO 527
Yield stress	**23**	MPa	ISO 527
Strain at break	**400**	%	ISO 527
Flexural modulus, 23°C	**2400**	MPa	ISO 178
Charpy notched impact strength, +23°C	**30**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**3.8**	kJ/m²	ISO 179/1eA
Izod notched impact strength, +23°C	**33**	kJ/m²	ISO 180/1A
Izod notched impact strength	**4**	kJ/m²	ISO 180/1A
Temperature	**-30**	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**65**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**117**	°C	ISO 75-1/-2
Vicat softening temperature, A	**140**	°C	ISO 306
Burning rate, FMVSS, Thickness 1 mm	**38**	mm/min	ISO 3795 (FMVSS 302)

Other properties	Value	Unit	Test Standard
Density	**1050**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80**	°C	-
Pre-drying - Time	**2 - 3**	h	-
Melt temperature	**200 - 260**	°C	-
Mold temperature	**20 - 60**	°C	-

Characteristics

Processing
Injection Molding

Regional Availability
Europe, Near East/Africa

Applications
Automotive