CALIBRE™ IM 401-18

PC — Trinseo

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	**18**	g/10min	ISO 1133
Temperature	**300**	°C	-
Load	**1.2**	kg	-
Molding shrinkage, parallel	**0.7**	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	**18**	g/10min	ASTM D 1238
Temperature	**300**	°C	-
Load	**1.2**	kg	-
Mold Shrinkage, MD	**0.007**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Yield stress	**58**	MPa	ISO 527
Strain at break	**>50**	%	ISO 527
Flexural modulus, 23°C	**2270**	MPa	ISO 178
ASTM Data			
Tensile Strength at Yield	**57.9**	MPa	ASTM D 638
Elongation at Break	**110**	%	ASTM D 638
Flexural Modulus	**2275**	MPa	ASTM D 790
Flexural Strength	**89.6**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**641**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**121**	°C	ISO 75-1/-2
Vicat softening temperature, B	**146**	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	**HB**	class	IEC 60695-11-10
Thickness tested	**1.6**	mm	-
Burning behav. at thickness h	**HB**	class	IEC 60695-11-10
Thickness tested	**3.2**	mm	-
ASTM Data			
UL 94 Flame rating	**HB**	-	UL 94
Thickness tested	**1.59**	mm	-
DTUL @ 264 psi	**121**	°C	ASTM D 648
Vicat Temperature	**146**	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	**1180**	kg/m³	ISO 1183
Density	**1180**	kg/m³	ASTM D 792

Characteristics

Special Characteristics

High impact or impact modified

Regional Availability

North America, South and Central America

Applications

Automotive