



## Technical Data Sheet

## PEI 1010

Physical	Condition	Test Method	Typical Value
Density		ISO 1183	1.27 g/cm <sup>3</sup>
Melt Volume-Flow Rate (MVR)	360/ 5.0 kg	ISO 1183	13.0 cm <sup>3</sup> / 10 min
	340/ 5.0 kg	ISO 1183	13.0 cm <sup>3</sup> / 10 min
Molding Shrinkage-Flow			0.50 to 0.70 %
Water Absorption	Saturation, 23	ISO 62	1.30 %
	Equilibrium, 23, 50%RH	1.30 %	0.70 %

Mechanical	Condition	Test Method	Typical Value
Tensile Modulus		ISO 527-2/1	3200 MPa
Tensile Stress	Yield	ISO 527-2/1	105 MPa
	Break		85.0 MPa
Tensile Strain	Yield	ISO 527-2/50	6.00 %
	Break		60,00%
Flexural Modulus		ISO 178	3300 MPa
Flexural Stress		ISO 178	160 MPa
Taber Abrasion Resistance	1000 cycles, 1000 g	Internal Method	10.0 mg

Impact	Condition	Test Method	Typical Value
Notched Izod Impact Strength	23°C	ISO 180/1U	5 kJ/m <sup>2</sup>
Unnotched Izod Impact Strength	23°C	ISO 180/1A	No Break

Hardness			
Ball Indentation Hardness		ISO 2039-1	140 MPa



Thermal Data			
Heat Deflection Temperature	0.45 Mpa, Unannealed	ISO 75-2/ Be	200°C
	1.8 MPa	ISO 75-2/ Ae	190°C
Vicat Softening Temperature		ISO 306/A50	215°C
		ISO 306/B50	211°C
		ISO 306/B120	212°C
Ball Pressure Test	125°C	IEC 60695-10-2	Pass
CLTE		ISO 11359-2	
Flow	23°C to 150°C		5.0E-5 cm/cm/°C
Transverse	23°C to 151°C		5.0E-5 cm/cm/°C
Thermal Conductivity		ISO 8302	0,21 W/m/K
RTI Elec		UL 746	170°C
RTI Imp		UL 746	170°C
RTI STr		UL 746	170°C

Flammability			
Flame Rating	1.50 mm	UL94	V-0
	3.00 mm		5VA
Glow Wire Flammability Index	3.20 mm	IEC 60695-2-12	960°C
Oxygen Index		ISO 4589-2	47%