

Noryl N190

(PPE+PS)

SABIC Innovative Plastics

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	8	cm ³ /10min	ISO 1133
Temperature	280	°C	-
Load	2.16	kg	-
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2300	MPa	ISO 527-1/-2
Yield stress	50	MPa	ISO 527-1/-2
Yield strain	3	%	ISO 527-1/-2
Stress at break	40	MPa	ISO 527-1/-2
Strain at break	20	%	ISO 527-1/-2
Charpy notched impact strength, +23 °C	10	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30 °C	5	kJ/m ²	ISO 179/1eA
Flexural modulus, 23 °C	2200	MPa	ISO 178
Izod Impact notched, 23 °C	10	kJ/m ²	ISO 180/1A
Izod Impact notched	6	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-
Ball indentation hardness	87	MPa	ISO 2039-1

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	80	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	90	°C	ISO 75-1/-2
Vicat softening temperature, A	110	°C	ISO 306
Vicat softening temperature, 50 °C/h 50N	95	°C	ISO 306
Coeff. of linear therm. expansion, parallel	70	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	90	E-6/K	ISO 11359-1/-2
Burning behav. 5V at thickness h	5VA	class	IEC 60695-11-20
Thickness tested	3.0	mm	-
Oxygen index	30	%	ISO 4589-1/-2
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	1.5	mm	-

Electrical properties	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	2.6	-	IEC 60250
Dissipation factor, 1MHz	9	E-4	IEC 60250
Volume resistivity	1E13	Ohm*m	IEC 60093
Surface resistivity	>1E15	Ohm	IEC 60093
Comparative tracking index	250	-	IEC 60112

Other properties	Value	Unit	Test Standard
ISO Data			
Water absorption	0.32	%	Sim. to ISO 62
Humidity absorption	0.06	%	Sim. to ISO 62
Density	1100	kg/m ³	ISO 1183

Characteristics**Processing**

Injection Molding

Regional Availability

Europe, Asia Pacific, Near East/Africa

Special Characteristics

Flame retardant