

**Sipolprene® 48200**

(TPC-ET)

Sipol spa Società Italiana Polimeri

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melt volume-flow rate, MVR	19	cm <sup>3</sup> /10min	ISO 1133
Temperature	230	°C	-
Load	2.16	kg	-
Melt flow index, MFI	23	g/10min	ISO 1133
Temperature	230	°C	-
Load	2.16	kg	-
Molding shrinkage, parallel	0.8	%	ISO 294-4, 2577
Molding shrinkage, normal	1.4	%	ISO 294-4, 2577

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Stress at break	34	MPa	ISO 527
Strain at break	560	%	ISO 527
Flexural modulus, 23°C	150	MPa	ISO 178
Izod notched impact strength, +23°C	N	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength	N	kJ/m <sup>2</sup>	ISO 180/1A
Temperature	-40	°C	-
Compression set at 23 °C, 24h	34	%	ISO 815
Compression set at 70 °C, 24h	61	%	ISO 815
Abrasion resistance	23	mm <sup>3</sup>	ISO 4649
Shore D hardness	48	-	ISO 7619-1

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melting temperature, 10°C/min	198	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	-18	°C	ISO 11357-1/-2
Vicat softening temperature, A	174	°C	ISO 306

<b>Electrical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Volume resistivity	1E10	Ohm*m	IEC 62631-3-1
Electric strength	17	kV/mm	IEC 60243-1

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	1180	kg/m <sup>3</sup>	ISO 1183

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	90	°C	-
Pre-drying - Time	2 - 3	h	-
Processing humidity	≤0.15	%	-
Mold temperature	30 - 40	°C	-
Zone 1	180 - 195	°C	-
Zone 2	205	°C	-
Zone 3	215	°C	-
Nozzle temperature	225	°C	-

<b>Processing Recommendation Extrusion</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	90	°C	-
Pre-drying - Time	2 - 3	h	-
Processing humidity	≤0.15	%	-
Feed temperature	190 - 205	°C	-
Zone 1	205 - 215	°C	-
Zone 2	210 - 225	°C	-
Nozzle temperature	210 - 225	°C	-

**Characteristics**

**Processing**

Injection Molding, Other Extrusion

**Delivery form**

Pellets

**Features**

Good Adhesion

**Certifications**

Food contact, Food approval 10/2011, Food approval FDA 21 CFR, RoHS compliant, REACH

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America, Near East/Africa