

Sipolprene® 48200
(TPC-ET)

Sipol spa Società Italiana Polimeri

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	19	cm³/10min	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
Melt Flow Index, MFI	23	g/10min	ISO 1133
MFI temperature	230	°C	-
MFI load	2.16	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Stress at Break	34	MPa	ISO 527
Strain at Break	560	%	ISO 527
Flexural Modulus (23°C)	150	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	no break	kJ/m²	ISO 180/1A
Notched Impact Strength (Izod)	no break	kJ/m²	ISO 180/1A
Temperature	-40	°C	-
Compression Set under constant strain, 23°C	34	%	ISO 815
Compression Set under constant strain, 70°C	61	%	ISO 815
Abrasion resistance	23	mm³	ISO 4649
Shore Hardness D (15s)	48	-	ISO 868

Thermal Properties	Value	Unit	Test Standard
ISO Data			
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

Electrical Properties	Value	Unit	Test Standard
ISO Data			
Volume Resistivity	1E10	Ohm*m	IEC 62631-3-1
Electric Strength	17	kV/mm	IEC 60243-1

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1180	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
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	-

Processing Recommendation Extrusion	Value	Unit	Test Standard
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	-

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Characteristics

Processing

Injection Molding, Other Extrusion

Features

Good Adhesion

Delivery form

Pellets

Certifications

Food approval, Food approval 10/2011, Food Contact (FDA)