

Product Texts

TPC-ET Thermoplastic Elastomer. Low Modulus, Nominal Shore D/15s 43. Natural colour

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	60	MPa	ISO 527
^[C] Charpy notched impact strength, +23°C	N	kJ/m ²	ISO 179/1eA
^[C] Stress at 10% elongation	6	MPa	ISO 527
^[C] Stress at 100% elongation	11	MPa	ISO 527
^[C] Stress at 300% elongation	12	MPa	ISO 527
^[C] Tear strength	142	kN/m	ISO 34-1
^[C] Abrasion resistance	19	mm ³	ISO 4649
^[C] Shore D hardness	43	-	ISO 7619-1

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	186	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 0.45 MPa	70	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	150	°C	ISO 306

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
^[C] Volume resistivity	1E13	Ohm*m	IEC 62631-3-1

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Water absorption	0.45	%	Sim. to ISO 62
^[C] Density	1150	kg/m ³	ISO 1183

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	110	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.05	%	-
Melt temperature	210 - 220	°C	-
Mold temperature	30 - 50	°C	-

Characteristics**Processing**

Injection Molding, Profile Extrusion

Delivery form

Granules, Natural Color

Regional Availability

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

Other text information**Injection molding**

The material is delivered in moisture-proof packaging ready for processing. Maximum recommended water content for best processing is 0.05%. Typical conditions with a desiccant drier: temperature 110 °C, dew point -30 °C or below, time 2-4 h or more. Special care must be taken to avoid moisture absorption and contamination with other polymers when adding regrind material. Colour variation and mechanical properties reduction may occur and should always be carefully monitored.

Injection Molding Processing Parameters

Melt Temperature

Mold Temperature

Injection Speed

210 - 220°C

30 - 50°C

medium