

Product Texts

TPC-ET Thermoplastic Elastomer. Medium-high Modulus, Nominal Shore D/15s 57. Natural colour

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	390	MPa	ISO 527
^[C] Yield stress	25	MPa	ISO 527
^[C] Yield strain	25	%	ISO 527
^[C] Nominal strain at break	>50	%	ISO 527
^[C] Charpy notched impact strength, +23°C	70	kJ/m ²	ISO 179/1eA
^[C] Stress at 10% elongation	19	MPa	ISO 527
^[C] Stress at 100% elongation	22	MPa	ISO 527
^[C] Stress at 300% elongation	23	MPa	ISO 527
^[C] Tear strength	241	kN/m	ISO 34-1
^[C] Abrasion resistance	20	mm ³	ISO 4649
^[C] Shore D hardness	57	-	ISO 7619-1

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	212	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	60	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	110	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	195	°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	0.2	%	Sim. to ISO 62
^[C] Density	1230	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	230 - 240	°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
230 - 240°C

Mold Temperature
30 - 50°C

Injection Speed
medium