



Technical Data Sheet

EVERLON® TSC-85N Thermoplastic Elastomer

The EVERLON® TSC-85N is a high performance thermoplastic elastomers- SEBS (Styrene-Ethylene/Butylene-Styrene) copolymer compounding.

TSC-85N is the most premium material on the criteria of mechanization-Heat Stabilization, weather resistance, UV Stabilization, Flexibility and Comfortable.

Feature

- Rubbery feel
- Excellent colorability
- High Flow for long, thin-wall parts
- Overmold adhesion to polypropylene

Processing Method & Example

- Injection Molding
- Low specific gravity
- Good UV resistance

Color	Natural
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Mechanical properties	VALUE	Test Method
Hardness	85 A±2	ASTM D2240
Specific Gravity	0.9	ASTM D792
Tensile Strength	85 kg/ cm ²	ASTM D412
Elongation at break	625 %	ASTM D412
Tear strength	55 kg/cm	ASTM D624
Brittleness temperature	< -40°C	ASTM D746
Melt Flow Rate	4-6 g/10min	ASTM D1238

Temperatures	VALUE(Metric)
Injection Molding	
1st Zone-Rear	165-180 °C
2nd Zone-Center	170-190 °C
3rd Zone-Front	180-210 °C
4th Zone-Nozzle	175-195 °C
Mold Temperature	30-40 °C

Pressure, Velocity, Recovery, Timers	VALUE(Metric)
Pressure	
1st Stage-Boost	50-90 kg/ cm ²
2nd Stage-Hold	25-50 % of Boost
Back Pressure	5-10 kg/ cm ²

Velocity	
Injection Velocity	Fast 30-80 mm/sec



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Recovery

Screw Speed

75-110 RPM

Timers

Hold Time (Thick part)

4-10 sec

Hold Time (Thin part)

1-3 sec

Drying

VALUE

Drying is not required

Drying Temperature

30-40 °C

Drying Time

1-2 hrs

Purging

Purge thoroughly before and after use of this product with a low flow (0.5-3 MFR) polypropylene(PP) or polyethylene(PE)

Coloring

Color concentrates with polypropylene(PP), ethylene Vinyl acetate (EVA), or low density polyethylene (LDPE) Carries are most suitable for coloring EVERLON TSC-85N, concentrates based on PVC Should not be used. The final determination of color concentrate be determined by the customer.

Regrind

Regrind levels up to 20% can be used with EVERLON TSC-85N with minimal property loss, provided that the regrind is free of contamination.

Note: All ASTM methods reference above are EVER polymer Co. Versions of the ASTM test method shown



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