

T-BLEND® is a series of thermoplastic rubber compound materials produced by TSRC Corporation.

T-BLEND® 1903-45N can be applied to a variety of unique products with the advantages of rebound resilience, compression and bending properties by injection molding.

T-BLEND® 1903-45N is a palletized elastomer compound based on Styrenic Block copolymer. It's produced in pellet to manufacture conveniently.

T-BLEND® 1903-45N thermoplastic elastomer compound is recyclable including wastes from gate, runner, and waste parts.

Physical Properties :

PROPERTIES	TESTING METHOD	CONDITIONS	UNITS	VALUES
Form	N/A	--	--	Pellets
Color	N/A	--	--	Natural
SP.GR/Density	ASTM D792	--	--	0.99~1.05
Hardness (Shore A)	ASTM D2240	A Type	Shore A	44~50
Melt Flow Index	ASTM D1238	5 kg @ 180°C	g/10min	35~105
Tensile strength at break	ASTM D412	Type 3, specimen	kgf/cm ²	26 Typical
Elongation at break	ASTM D412	500 mm/min	%	507 Typical
300% Modulus	ASTM D412	500 mm/min	kgf/cm ²	22 Typical
Tear strength	ASTM D624	C Die	kgf/cm	14 Typical

Processing Guide :

Drying :

Under general storing condition, **T-BLEND® 1903-45N** can absorb moisture, so pre-drying is necessary before processing. If the environment is humid or surface performance parts are required, please dry the pellets in hot air circulating oven/hopper (70°C) for 1-2 hours.

Injection Machine / Screw :

With L/D ratio 15:1 or more would be better. The compression ratio (CR) is 2:1 or 3:1 and Shallow depth screw on metering section would be better for processing.



Barrel Temperature :

Information below is TSRC extrusion guide, but actual operation should rely on your processing experience.

Items		Values
Barrel Temp. (°C)	Feed	160
	Rear	170
	Front	180
	Die	190
Mold Temp. (°C)		30 ~ 40
Back Pressure (kg/cm ²)		3.5 ~ 7
Injection Speed		General
Cycle (sec)		25 ~ 50

Others: The molding shrinkage of **T-BLEND® 1903-45N** is approximately between 0.015~0.025 inch/inch.

