

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

T-BLEND® 3001-45N thermoplastic rubber has already widely used to replace conventional vulcanized rubber such as NBR, BR and SBR without vulcanization methods. **T-BLEND® 3001-45N** can be applied to a variety of unique products with excellent elasticity, flexibility and fine cells by injection molding process.

T-BLEND® 3001-45N is a palletized elastomer compound based on styrenic block copolymer.

T-BLEND® 3001-45N thermoplastic elastomer compound is recyclable including wastes from gate and runner.

T-BLEND® 3001-45N thermoplastic rubber can meet vast requirements based on excellent weather durability, low temperature resistance, electricity insulation, chemical resistance and international heavy metal safety / RoHS Compliance.

Physical Properties:

PROPERTIES	TESTING METHOD	CONDITIONS	UNITS	VALUES
Form	--	--	--	Pellets
Color	--	--	--	Nature
SP.GR/Density	ASTM D792	--	--	0.94~0.98
Hardness	ASTM D2240	Shore A	Shore A	46~50
Melt Flow Index	ASTM D1238	5 kg/180°C	g/10min	2~8
Tensile Strength at break	ASTM D412	Type 3, specimen	kg/cm ²	28 Typical
Tear Strength at break	ASTM D624	C Die	kg/cm	19 Typical
Elongation at break	ASTM D412	500 mm/min	%	340 Typical

Processing Guide :

Drying :

Under general storing condition, **T-BLEND® 3001-45N** 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 (100°C) for 1 hour.



Extruder/ Screw/ filter :

Extruder with L/D ratio (24:1~), CR (2:1or3: 1) and shallow depth screw on metering section would be better for processing. Filter mesh (100) may be used.

Barrel Temperature :

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

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

