

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

**T-BLEND® 2100-40T** can be applied to a variety of unique products with the advantages of weather durable, rebound resilience, compression and bending properties by injection molding.

**T-BLEND® 2100-40T** is a palletized elastomer compound based on styrenic block copolymer.

**T-BLEND® 2100-40T** thermoplastic elastomer compound is recyclable including wastes from gate and runner.

## Physical Properties:

PROPERTIES	TESTING METHOD	CONDITIONS	UNITS	VALUES
Form	N/A	--	--	Pellets
Color	N/A	--	--	Milky
SP.GR/Density	ASTM D792	--	--	0.87~0.93
Hardness	ASTM D2240	A Type	Shore A	39~45
Melt Flow Index	ASTM D1238	5 kg @ 200°C	g/10min	5~20
Tensile Strength at Break	ASTM D412	Type 3,	kg/cm <sup>2</sup>	38 Typical
Elongation at Break	ASTM D412	specimen	%	452 Typical
Modulus at 300%	ASTM D412	Crosshead	kg/cm <sup>2</sup>	30 Typical
Tear Strength at Break	ASTM D624	500mm/min	kg/cm	18 Typical
Compression set	ASTM D573	C Die 70°C*22hrs	%	--

Remarks : 1 MPa = 10.2 kg/cm<sup>2</sup> ; 1 kg/cm<sup>2</sup> = 14.2 psi

## Processing Guide :

### Drying :

Under general storing condition, **T-BLEND® 2100-40T** can absorb moisture, so pre-drying is necessary before processing. Please dry the pellets in hot air circulating oven/hopper (80°C) for 1 hour.



**Injection Machine/ Screw :**

With L/D ratio (15:1), CR (2:1or3: 1) and shallow depth screw on metering section would be better for processing.

**Barrel Temperature :**

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

Items		Values
Barrel Temperature (°C)	Feed	~ 150
	Rear	170
	Front	180
	Die	190
molding (°C)		30 ~ 40
Back pressure (kg/cm <sup>2</sup> )		3.5 ~ 7
Injection speed		General
Cycle (sec)		25 ~ 50

**Others :**

**T-BLEND® 2100-40T:** The molding shrinkage is approximately between 0.015 ~ 0.025 inch/inch.

