▶ Application

Molding method		Application
Injection molding	Automotive parts	Ball joint, Dust cover, Tire chains, Side molding
	Machinery/ Industrial components	O-ring, Sealing materials, Gears, Connector
	Sporting goods	Sports shoes, Fin, Goggles
	Others	Watch band, Caster, Roller, Heel top piece of shoes
Extrusion molding	Hose/ Tube	Pressure-resistant hose, Tube, Inner part of fire hose
	Belt	Conveyor belt, Air mattress, Tarpaulin, Driving belt, Round belt
	Electrical wire/ Cable	Electrical wire/ Cable covering, Computer wiring, Curl cord
	Others	Ropes, Medical disposables
Calendar molding		Conveyor belt, Film, Flexible container

Characteristics

TPU for molding, developed with our original technology

- •The best abrasion-resistance and the highest level of strength and elongation, compared with other elastomers based on polyester, polyolefin and polystyrene
- •Settable shore hardness covering a wide range of variation
- •Free from vulcanization process
- •High recoverability and recyclability of scraps
- •Well-balanced characteristics, such as cold-resistance and oil-resistance
- •An abundant product grade with high functionality as shown below, and also capable of coloring various resins by using our CP series

Representative Products

Standard grade

Product name	Polyol	Characteristics
P-1000	Ester	General-purpose grade
P-7000		Enhanced low temperature properties
P-2000	Ether	Hydrolysis-resistance, Antibacterial activity
P-4000	Caprolactone	Excellent in injection moldability
P -800	Polycarbonate	Hydrolysis-resistance, Antibacterial activity, Heat-resistance

Highly functional grade

Product name	Characteristics	
PH (Heat-resistant type)	Higher heat-resistance compared with conventional TPU •Less compression strain under high temperature, and higher softening point •High resistance against heated oil/grease •Wide application range because of fewer changes in property in wide temperature range	
PS (Non-adhesive type)	Characteristics of both silicone and TPU •Low adhesion and excellent releasability •Wide application range because of less decrease in elastic modulus under high temperature and fewer change in shore hardness under low temperature	
PM (Moisture-permeable type)	Higher moisture-permeability (2~3 times as compared with conventional TPU) •Applicable to non-porous materials •Water-swelling and non-swelling types	
P-8794S (Shock absorbing type)	Excellent in shock absorption property compared with conventional TPU •Excellent in hydrolysis-resistance, heat-resistance and oil-resistance, because of polycarbonate-based TPU •Greater variation in shore hardness with temperature compared with standard type	