

Syndiaotactic 1,2- Polybutadiene

Syndiaotactic 1,2- Polybutadiene. It contains over 90% of 1,2 bonds.
 The average molecular weight is about 100,00. It is a unique Thermoplastic.
 Elastomer of which the crystallinity is controlled so that it comes within about 15% and 30%.

In Japan RB is registered in Pharmaceuticals and Medical Devices Safety Information No.189. of Ministry of Health, Labor and Welfare as DEHP free infusion tube.

Grade	1,2 Bonds(%)	MFR(g/10min) 150°C, 21.2N	Melting Temp. (°C)	Specific Gravity	Application	Form
RB 810	90	3	71	0.90	Industrial Goods, Melting bags, Sponge, products, resin binders	P
RB 820	92	3	95	0.91	Footwear, Industrial goods, Melting Bags, Films, Sheets, Hoses Sponge Products.	P
RB 830	93	3	105	0.91		P
RB840	94	9	125	0.91	Footwear, industrial, goods	P

Applications and Outstanding Features

Applications			Outstanding Features
Applications of Thermoplastic Elastomers	Film	Film for Industrial use, Melt Bags	Transparency, self sticking property, flexibility, piercing strength, gas permeation, low temperature heat sealing properties..
	Various Footwear Soles	Unit soels, Inner Soles, Outer Soles, based on injection molding	Lightweight, Hard, Rubber-like feeling, no flatting, snappiness, fine reproduction of mold design, paintability, adhesion crack resistant.
	Others	Blow Molding, Injection Molding, Plastics, Modifier, Medical Tubing & Friction Pen Eraser.	Flexibility, Rubber-like feeling.
Application as Rubber	Variety of Sponge Products	Microcellular Sponge, Hard Sponge, Semihard Sponge, Soft Sponge, Crepe-like Sponge.	One-step cure, broad curing condition range, enables high filling, elasticity, snappiness, no flatting, weather-ability, ozone resistance, heat resistance, tear resistance, paintability, adhesion, slip resistance, abrasion resistance.
	Various High Hardness Products	Footwear, Industrial Goods, Sports Goods, Miscellaneous Goods	Elongation, Tensile Strength, High Hardness, Snappiness, flowability, cross-linking properties, Weatherability, ozone resistance, Heat Resistance, Ozone Resistance, Heat Resistance, Slip Resistance, Abrasion Resistance.
	Injection Cured Products	Industrial Goods	Flowability, Crosslinking property, Weatherability, Ozone Resistance, Heat Resistance, Snappiness.
	Various Rubber Modifiers	Various Rubber Products	High green strength, flowability, extrudability, weatherability, ozone, resistance, heat resistancesnappiness.
	Others	Transparent Cured Rubber Products , Transparent Rubber Sole	Transparency, weatherabilty, heat resistance
other Application	Modifier	Blends with SBS	Improvement in appearance of Molded Goods. (Elimination of flow marks and scratch marks) Improvement of flowability.
	Crosslinking Co-agent	Crosslinking Co-agent for Polyolefins	Reduction amount of crosslinking agent, good, Mechanical Properties.
	Photosensitive Material	Printing Materials	Photosensitivity(Photocrosslinking), flowability, Low Solution Viscosity.
	Thermosetting Resin Product	Resin Vibration Insulator	High Hardness