

## GB Standards YarwinSun Obey

GB is the national standard. GB / T is the recommended national standard (GB / T). Recommended GB means of production, exchange, use etc., through market regulation and economic instruments or voluntary adoption of national standards.

Standard Code	Standard Name
GB/T 3672.1-2002	Rubber - Tolerances for products - Part 1: Dimensional tolerances
GB/T3672.2-2002	Rubber - Tolerances for products - Part 2: Geometrical tolerances
GB/T 5574-1994	Industrial Rubber Sheet
GB/T 9575-2003	Rubber and plastic hoses-Bore diameters and tolerances on length
GB 3452.1-1992	Fluid systems-sealing devices-O-rings-Inside diameters, cross-sections, tolerances and size identification code
GB/T 3452.2-1987	Appearance quality acceptance criteria for rubber O-rings
GB/T 9877-2008	Rotary shaft lip seals-Design criteria for standard applications-Part 1: rubber covered rotary shaft lip seals
GB 13871-1992	Rotary shaft lip type seals-Nominal dimensions and tolerances
GB/T 15326-1994	Appearance quality for rotary shaft lip seals

## DIN Standards YarwinSun Obey

DIN standard: Deutsches Institut fur Normung. Standards of German National Standard Institute.

Standard Code	Standard Name
DIN ISO 3302-1-1999	Rubber - Tolerances for products - Part 1: Dimensional tolerances
DIN ISO 3302-2-1999	Rubber - Tolerances for products - Part 2: Geometrical tolerances
DIN ISO 3384-2008	Rubber, vulcanized or thermoplastic - Determination of stress relaxation in compression at ambient and at elevated temperatures
DIN ISO 34-1-2004	Rubber, vulcanized or thermoplastic - Determination of tear strength - Part 1: Trouser, angle and crescent test pieces

## REACH Regulation YarwinSun Obey

REACH is the common rules adopted by the European Parliament and EU Council on Dec. 18th., 2006. It is the regulation for preventive management of all chemicals legislation accessing EU market.

### Reach Major Content

Registration: annual production or import chemical substances more than 1 ton required for registration, annual production or import chemical substances more than 10 tons should also submit the chemical safety report.

Evaluation: including archive evaluation and physical assessment. Archive evaluation is to verify the completeness and consistency of business registration dossier. Physical assessment is the recognition of chemicals hazardous to human health and environmental risks.

Authorization: authorize the production and import of chemicals which has certain risk characteristics and causes close attention, including CMR, PBT, mutagenesis and biological toxicity etc...

Restriction: EU will limit the production and import of certain material, configuration items or products which leading risk to human health and environment and the risk can't be controlled..

### REACH regulations implementation schedule:

Date	Event
June 1, 2007	REACH regulations implemented.
June, 2008	European Chemicals Agency established.
June 11, 2008	Phase-in Substances pre-registered.
Jan 1 <sup>st</sup> ., 2009	Substance Information Exchange Forum (SIEF) established
June, 2010	Complete the registration of annual production or import volume: more than 1 ton per 67/548/EEC defined as CMR 1, 2. more than 100 tons per 67/548/EEC N:R50-53 defined as High aquatic toxic substance leading long-term negative effects to water environment
June, 2013.	Complete the registration of annual production or import volume more than 100 tons
June, 2018.	Complete the registration of annual production or import volume more than 1 ton.

Note: After June 1<sup>st</sup>. 2008 registration documents accepted formally. Chemicals manufactured and sold in the EU must finish the registration before the registration deadline; new chemical substances must be registered before launched to market.

## ASTM Standards YarwinSun Obey

ASTM standard: American Society for Testing and Material Standards, voluntary consensus standards of materials, products, systems and services. It is the base of production, management, procurement, and the development of regulations and ordinances.

Standard Code	Standard Name
ASTM D395	Compression Set of Rubber
ASTM D412	Vulcanized Rubber & Thermoplastic Rubbers & Thermoplastic Elastomers - Tension
ASTM D573	Deterioration in an Air Oven
ASTM D624	Tear Strength of Conventional Vulcanized Rubber & Thermoplastic Elastomers
ASTM D2240	Durometer Hardness of Rubber
ASTM D1415	Test Method for Rubber Property-International Hardness
ASTM D1349	Practice for Rubber-Standard Temperatures for Testing
ASTM D1646	Test Methods for Rubber-Viscosity, Stress Relaxation, and Pre-Vulcanization Characteristics (Mooney Viscometer)
ASTM D3182	Practice for Rubber-Materials, Equipment, and Procedures for Mixing Standard Compounds and Preparing Standard Vulcanized Sheets
ASTM D3183	Practice for Rubber-Preparation of Pieces for Test Purposes from Products
ASTM D3767	Practice for Rubber-Measurement of Dimensions
ASTM D832	Practice for Rubber Conditioning for Low-Temperature Testing
ASTM F1957	Test Method for Composite Foam Hardness-Durometer Hardness