

Combining the Advantages of Thermoplastic Processing and Elastomeric Performance

Sarlink 6100 series grades exemplify both our curiosity and discipline in research, and care and dedication in production. Our engineers have succeeded in creating a product range that feels like rubber yet processes easily like plastic. Sarlink 6100 is based on dynamically vulcanized rubber in a polypropylene matrix, which combines superb elastic properties with the processing ease of thermoplastics.

Sarlink 6100: Ideally Suited for Applications with High Aesthetic and Tactile Requirements

In addition to superior performance and ease of processing found with Sarlink TPVs, the Sarlink 6100 series features excellent surface finishing and colorability. Striking bright colors can be achieved, using less pigments. The performance, design and cost advantages make Sarlink 6100 ideally suited for applications with high aesthetic and tactile requirements. The exceptional flow characteristics and non-hygroscopic properties of the Sarlink 6100 series make it an easy-to-process material. Drying is not necessary due to the fact that there's virtually no moisture absorption.

Sarlink 6100 Offers New Opportunities

Sarlink 6100 is available in hardnesses from 35 Shore A to 90 Shore A in natural color. Important characteristics of Sarlink 6100 are:

- Low emissions – excellent fogging properties, especially for automotive interior applications where low VOC's (Volatile Organic Components) are required.
- Excellent flow & processing behavior – opens up new design opportunities, suited to long flow lines in large complex injection molded shapes.
- Appealing physical properties – highly elastic, good chemical resistance against most chemicals like hydrocarbons and aqueous liquids, good temperature stability.

The Answer to a Number of Application Related Issues

Sarlink 6100 series compounds are well designed for use in household appliances, power tools, personal care products, food contact applications and sports & leisure equipment. Due to their composition and manufacturing technology, Sarlink 6100 series grades are the solution to a number of application related issues, such as corrosion problems during processing, compliancy with medical legislations or paint staining problems for architectural profile applications. Sarlink 6100 series can be processed through standard thermoplastic techniques, but is particularly suited for injection molding.

Safety

Sarlink does not present a toxic hazard through skin contact or inhalation when handled under normal conditions. Contact with molten polymers or inhalation of fumes should be avoided during processing. More and detailed information can be downloaded from www.sarlink.com.

Other Sarlink Products

Other Sarlink grade series exist, each with a specialty set of properties designed to fit a variety of application requirements. In addition to standard Sarlink series, special Sarlink grades exist or can be developed to meet unique customer requirements, such as specific OEM or regulatory approval requirements, UV resistance, or potable water contact. Information regarding these specialty grades and other Sarlink series are available via your Sarlink representative or on www.sarlink.com.

Data Sarlink 6100 easy processing, high colorability general purpose grades (ISO standards)

Date of last modification : 26-Jun-09

Typical properties	Test standard	Units S.I.	6135	6145	6155	6165	6175	6180	6190
Density	ISO 1183	kg/m ³	888	890	910	912	926	937	956
Hardness (5 sec delay)	ISO 868	Shore A or D							
Extruded sample			32A	42A	53A	61A	72A	80A	87A
Injection molded sample			36A	46A	58A	65A	76A	84A	91A
Tensile properties	ISO 37								
<i>Flow direction</i>									
Tensile strength at break		MPa	2,3	3,1	3,4	4,0	5,4	7,3	9,7
Modulus at 100% elongation		MPa	1,1	1,6	2,4	3,1	4,3	6,0	8,1
Elongation at break		%	374	396	337	307	336	385	424
<i>Cross flow direction</i>									
Tensile strength at break		MPa	2,7	3,7	4,4	5,2	6,3	8,0	10,5
Modulus at 100% elongation		MPa	0,8	1,1	1,8	2,2	3,2	4,2	5,5
Elongation at break		%	555	612	609	615	641	650	670
Tear strength (cross flow)	ISO 34B								
Unnicked angle		kN/m	10,5	15,7	20,1	24,2	33,2	45,6	58,8
Compression set	ISO 815								
22 hrs@23°C		%	23	24	27	28	33	39	42
22 hrs@70°C		%	30	33	40	42	48	54	57
Apparent shear viscosity	ISO 11443								
@206 1/s, 200°C	Capillary	Pa.s	195	225	215	211	198	212	258

Some grades may not be available locally


Stretching innovations
Americas (all enquiries)

Telephone: +1.978.534.1010
 Toll Free (USA only): 800.524.0120
 Fax: +1.978.534.1005

Europe (all enquiries)

Telephone: +31.46.476.5468
 Fax: +31.46.476.1050

Singapore

Commercial Enquiry: +65.63936120
 Fax: +65.62995848

China

Commercial Enquiry: +86.21.68767359
 Technical Enquiry: +86.21.68767329

Japan

Commercial Enquiry: +81.352095151

About Sarlink

Sarlink is a global brand of premium quality pelletized thermoplastic vulcanizates (TPVs). A specialist in developing and manufacturing high quality TPVs to offer customers the material properties they need, such as flexibility, durability and low compression set. The products are produced under the highest production standards. Sold and distributed by a dedicated and service-driven sales force. And supported by an expert application development team. Sarlink adds value by being a specialist in high quality TPV solutions and offering a support structure based on close partnership. Sarlink is a truly global company with production operations and laboratories in Leominster MA (USA) and Genk (Belgium), and sales/marketing and technical support

offices in Rochester Hills MI (USA), Leominster MA (USA), Sittard-Geleen (The Netherlands), Shanghai (China), Singapore and through business partner Toyobo in Japan.

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info@sarlink.com
www.sarlink.com