# sarlink

# Sarlink 6100 Series

### 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

#### **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





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/m3	888	890	910	912	926	937	956
Hardness (5 sec delay) Extruded sample Injection molded sample	ISO 868	Shore A or D	32A 36A	42A 46A	53A 58A	61A 65A	72A 76A	80A 84A	87A 91A
<b>Tensile properties</b> <i>Flow direction</i> Tensile strength at break Modulus at 100% elongation Elongation at break	ISO 37	MPa MPa %	2,3 1,1 374	3,1 1,6 396	3,4 2,4 337	4,0 3,1 307	5,4 4,3 336	7,3 6,0 385	9,7 8,1 424
Cross flow direction Tensile strength at break Modulus at 100% elongation Elongation at break		MPa MPa %	2,7 0,8 555	3,7 1,1 612	4,4 1,8 609	5,2 2,2 615	6,3 3,2 641	8,0 4,2 650	10,5 5,5 670
Tear strength (cross flow) Unnicked angle	ISO 34B	kN/m	10,5	15,7	20,1	24,2	33,2	45,6	58,8
<b>Compression set</b> 22 hrs@23°C 22 hrs@70°C	ISO 815	% %	23 30	24 33	27 40	28 42	33 48	39 54	42 57
Apparent shear viscosity @2061/s, 200°C	ISO 11443 Capillary	Pa.s	195	225	215	211	198	212	258

Some grades may not be available locally



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