

Combining Excellent Flow with Colorability and Elastomeric Performance

Sarlink® 6100 series grades exemplify our curiosity and discipline in research, and our 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 carefully selected raw materials in combination with a proprietary process technology, 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 the superior performance and ease of processing found with other Sarlink® TPVs, the Sarlink® 6100 series features excellent surface finishing and colorability. Striking bright colors can be achieved, using less colorant. 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 mean excellent non-fogging properties, especially for automotive interior applications where low VOC's (Volatile Organic Compounds) are required.
- Excellent flow and processing behavior, opening new design opportunities involving long flow lines in large complex injection molded shapes.
- Valuable physical properties such as a high degree of elasticity, good resistance

to most chemicals like hydrocarbons and aqueous liquids, and good thermal stability.

The Answer to Multiple Application Issues

Sarlink® 6100 series compounds are well designed for use in household appliances, power tools, personal care products, food contact applications and sports and leisure equipment. Due to their composition and manufacturing technology, Sarlink® 6100 series grades solve problems such as corrosion problems during processing and paint staining in architectural profile applications. They can also be formulated to comply with regulations for medical devices. Sarlink® 6100 series can be processed through standard thermoplastic techniques, but these compounds are particularly well 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.teknorapex.com/sarlink.

Other Teknor Apex TPE products

Sarlink® is one of six product families within the Teknor Apex TPE portfolio. The Sarlink® range itself contains multiple grade series, 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 representative or at www.teknorapex.com/sarlink.

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

Typical properties	Test standard	Units S.I.	6135	6145	6155	6165	6175	6185	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

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About Teknor Apex TPE

The Thermoplastic Elastomer Division of Teknor Apex Company (TA TPE) is the most diversified manufacturer of TPEs, offering seven broad product families based on generically distinct chemistries and operating plants in the US, Europe, and Asia.

The processes used by TA TPE produce compounds that exhibit outstanding rubber-like properties with particular characteristics while being processable at high rates like any other thermoplastic, as well as being recyclable. Visit www.teknorapex.com/tpe to see the TPE product families.

Headquartered in Pawtucket, Rhode Island, US, the Division is an international supplier to the appliance, automotive, construction, medical-device, wire and cable, and other consumer and industrial product industries. Other plastics businesses of Teknor Apex include the Bioplastics, Nylon, Specialty Compounding, and Vinyl Divisions and Teknor Color Company. Visit www.teknorapex.com.

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For detailed Product Stewardship information, please contact us. Any product of TA TPE, including product names, shall not be used or tested in any medical or food contact application without the prior written acknowledgement of TA TPE as to the intended use. Please note that some products may not be available in one or more countries.

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