Sarlink® TPV 6755N (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Vulcanizate

Friday, June 30, 2017

General Information

Product Description

SARLINK® TPV 6755N is a high performance thermoplastic vulcanizate used in automotive applications including interior trim. Sarlink TPV 6755N is a medium hardness, low density grade, available in Nat or can be color-matched with good color stability, exhibiting good UV resistance. This grade is designed for injection molding but could also be extruded. This grade has been approved for GM's GMW 15816 TPV Type 4 specifications and Chrysler's MS-AR-100 AMV2 specifications.

General			
Material Status	• Preliminary Data		
Availability	• Asia Pacific • Europe	• Latin America • North America	
Features	• Chemical Resistant • Good Adhesion • Good Color Stability • Good Colorability	• Good Moldability • Good Processability • Light Stabilized • Low Compression Set	• Low Density • Low Specific Gravity • Medium Hardness • UV Resistant
Uses	• Automotive Applications • Automotive Interior Parts	• Automotive Interior Trim • Profiles	• Rubber Replacement • Seals
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	• CHRYSLER MS-AR-100 AMV2	• GM GMW15816 Type 4	
Appearance	• Colors Available	• Opaque	• Unspecified Color
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.915	g/cm³	ISO 1183
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2] (100% Strain)	232	psi	ISO 37
Tensile Stress [2] (Break)	624	psi	ISO 37
Tensile Elongation [2] (Break)	630	%	ISO 37
Tear Strength [3]	120	lbf/in	ISO 34-1
Compression Set (158°F, 24 hr)	34	%	ISO 815
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness			ISO 868
Shore A, 5 sec, Injection Molded	61		
Shore A, 15 sec, Injection Molded	59		
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Apparent Viscosity (392°F, 206 sec^-1)	216	Pa·s	ASTM D3835

Legal Statement

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchaser assumes all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or others. There is no warranty of merchantability and there are no other warranties for the products described. For detailed Product Stewardship information, please contact us. Any product of Teknor Apex, including product names, shall not be used or tested in medical or food contact applications without the prior written acknowledgement of Teknor Apex as to the intended use. Please note that some products may not be available in one or more countries.

上海松翰塑化科技有限公司
TEKNOR APEX 特诺亚塑胶一级分销商
tknorapex.shshsj.com 联系电话: 021-58528519

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180	°F

Revision Date: 2/16/2017

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Injection	Nominal Value	Unit
Drying Time	3.0	hr
Rear Temperature	350 to 420	°F
Middle Temperature	350 to 420	°F
Front Temperature	350 to 420	°F
Nozzle Temperature	370 to 430	°F
Processing (Melt) Temp	360 to 430	°F
Mold Temperature	50 to 150	°F
Back Pressure	10.0 to 150	psi
Screw Speed	100 to 200	rpm
Screw L/D Ratio	20.0:1.0	

Extrusion	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	3.0	hr
Cylinder Zone 1 Temp.	360 to 400	°F
Cylinder Zone 2 Temp.	360 to 400	°F
Cylinder Zone 3 Temp.	370 to 410	°F
Cylinder Zone 4 Temp.	370 to 410	°F
Melt Temperature	380 to 420	°F
Die Temperature	380 to 420	°F
Take-Off Roll	70 to 120	°F

Extrusion Notes

Screen Pack: 20 to 60 mesh
Screw: 3:1 Compression Ratio

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] Type 1, 20 in/min

[3] Method Ba, Angle (Unnicked), 20 in/min

Teknor Apex Company
Corporate Headquarters

In U.S. for Vinyls, TPEs, Colorants, Engineered Thermoplastics (Chem Polymer)
505 Central Avenue
Pawtucket, Rhode Island 02861 U.S.

Phone: 401-725-8000
Fax: 401-725-8095
Toll Free (U.S. only) 800-556-3864

info@teknorapex.com

Teknor Apex U.K. Ltd.

Tat Bank Road
Oldbury, West Midlands B69 4NH England

Phone: (44) 121-665-2100
Fax: (44) 121-544-5530

etpsales@teknorapex.co.uk

上海松翰塑化科技有限公司
TEKNOR APEX 特诺尔爱佩斯 一级分销商
teknorapex.shshsj.com 联系电话：021-58958519

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