

# Sarlink® TPE ML-2355B (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Thursday, June 29, 2017

## General Information

### Product Description

Sarlink TPE ML-2355B is a high performance thermoplastic elastomer designed for molding complex automotive applications. Sarlink TPE ML-2355B is a medium hardness, high density grade having good UV resistance, excellent molding behavior, and faster cycle times versus TPV's.

### General

Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant • Good Adhesion • Good Flow • Good Moldability	• Good Processability • High Density • High Specific Gravity • Low Fogging	• Medium Hardness • UV Resistant
Uses	• Automotive Applications	• Automotive Interior Parts	• Rubber Replacement
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

## ASTM & ISO Properties <sup>1</sup>

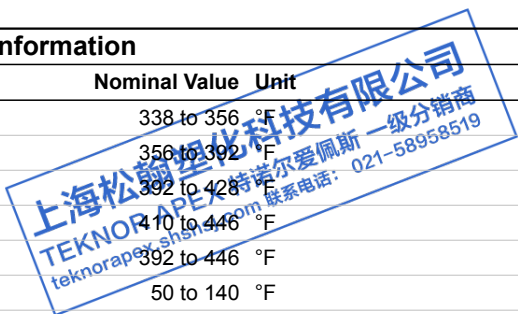
Physical	Nominal Value	Unit	Test Method
Density	1.07	g/cm <sup>3</sup>	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress - Across Flow (100% Strain)	174	psi	ISO 37
Tensile Strength - Across Flow (Break)	1130	psi	ISO 37
Tensile Elongation - Across Flow (Break)	850	%	ISO 37
Compression Set (158°F, 22 hr)	40	%	ISO 815
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec, Injection Molded)	55		ISO 868
Additional Information	Nominal Value	Unit	Test Method
Apparent Shear Viscosity - Capillary, 206 1/s (392°F)	168	Pa·s	ISO 11443

### 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.

## Processing Information

Injection	Nominal Value	Unit
Rear Temperature	338 to 356	°F
Middle Temperature	356 to 392	°F
Front Temperature	392 to 428	°F
Nozzle Temperature	410 to 446	°F
Processing (Melt) Temp	392 to 446	°F
Mold Temperature	50 to 140	°F
Injection Pressure	870 to 1740	psi
Injection Rate	Fast	



Revision Date: 6/1/2016

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Injection	Nominal Value	Unit
Holding Pressure	580 to 870	psi
Back Pressure	72.5 to 290	psi
Screw Speed	50 to 120	rpm

### Injection Notes

Drying is not necessary. However, if moisture is a problem, dry the pellets 2 to 4 hours at 65 degrees Celsius.

#### Time Settings

Injection Time: 0.5-2 seconds

Holding Time: 1-10 seconds

Cooling Time: As short as possible. The parts should be removable without deformation or piercing of the ejector(s)

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

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