



# Sarlink® TPE FM-2163

Teknor Apex Company - Thermoplastic Elastomer

## General Information

### Product Description

Sarlink TPE FM-2163 is a general purpose thermoplastic elastomer available in Nat, Blk, and other colors, used in a variety of automotive applications including interior parts. Sarlink TPE FM-2163 is a medium hardness, high density, UV resistant grade that exhibits excellent haptics, surface appearance, scratch and mar resistance, has low VOC and fogging, and is suitable for extrusion or injection molding.

### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant • Good Colorability • Good Processability • Good Scratch Resistance • Good Surface Finish	• High Density • High Specific Gravity • Low to No Fogging • Low VOC • Medium Hardness	• UV Resistant • Wear Resistant • Weather Resistant
Uses	• Automotive Applications • Automotive Exterior Parts	• Automotive Interior Parts • General Purpose	• Rubber Replacement • Weatherstripping
RoHS Compliance	• RoHS Compliant		
Appearance	• Black	• Colors Available	• Opaque
Forms	• Pellets		
Processing Method	• Injection Molding		

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

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17		ASTM D792
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	210	psi	ASTM D412
Tensile Stress (300% Strain)	310	psi	ASTM D412
Tensile Strength <sup>2</sup> (Break)	830	psi	ASTM D412
Tensile Elongation (Break)	750	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 15 sec <sup>3</sup>	63		
Shore A, 15 sec <sup>4</sup>	61		

## Processing Information

Injection	Nominal Value	Unit
Rear Temperature	390 to 410	°F
Middle Temperature	400 to 420	°F
Front Temperature	410 to 430	°F
Nozzle Temperature	420 to 440	°F
Processing (Melt) Temp	420 to 440	°F

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<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>
Mold Temperature	95 to 150	°F
Injection Pressure	200 to 1000	psi
Injection Rate	Fast	
Back Pressure	25.0 to 125	psi
Screw Speed	50 to 120	rpm
Cushion	0.150 to 1.00	in

### Injection Notes

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150°F (65°C).

<b>Extrusion</b>	<b>Nominal Value</b>	<b>Unit</b>
Cylinder Zone 1 Temp.	380 to 400	°F
Cylinder Zone 2 Temp.	390 to 410	°F
Cylinder Zone 3 Temp.	400 to 420	°F
Cylinder Zone 4 Temp.	400 to 420	°F
Cylinder Zone 5 Temp.	410 to 430	°F
Die Temperature	420 to 440	°F

### Extrusion Notes

Screw Speed: 30 to 100 rpm

### Notes

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

<sup>2</sup> 20 in/min

<sup>3</sup> HAND

<sup>4</sup> STAND