



# Sarlink® TPE ME-1345N

Teknor Apex Company - Thermoplastic Elastomer

## General Information

### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Low Density • Low Flow • Low Specific Gravity	• Lubricated • Medium Hardness • Slip	• Without Fillers
Uses	• Automotive Applications		
RoHS Compliance	• RoHS Compliant		
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

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

Physical	Nominal Value	Unit	Test Method
Density	0.890	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	5.0	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>2</sup>			ISO 37
Across Flow : 100% Strain	106	psi	
Flow : 100% Strain	197	psi	
Tensile Stress <sup>2</sup>			ISO 37
Across Flow : Break	841	psi	
Flow : Break	276	psi	
Tensile Elongation <sup>2</sup>			ISO 37
Across Flow : Break	820	%	
Flow : Break	350	%	
Tear Strength <sup>3</sup>			ISO 34-1
Across Flow	70	lbf/in	
Flow	100	lbf/in	
Compression Set <sup>4</sup>			ISO 815
72°F, 70 hr	27	%	
73°F, 22 hr	12	%	
194°F, 70 hr	47	%	
257°F, 70 hr	68	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, 1 sec, Injection Molded	47		
Shore A, 5 sec, Injection Molded	45		
Shore A, 15 sec, Injection Molded	43		

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Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air <sup>5</sup>			ISO 188
Across Flow : 230°F, 1008 hr	43	%	
Flow : 230°F, 1008 hr	5.3	%	
Across Flow : 100% Strain 230°F, 1008 hr	5.5	%	
Flow : 100% Strain 230°F, 1008 hr	6.6	%	
Across Flow : 257°F, 168 hr	69	%	
Flow : 257°F, 168 hr	11	%	
Across Flow : 100% Strain 257°F, 168 hr	21	%	
Flow : 100% Strain 257°F, 168 hr	13	%	
Change in Tensile Strain at Break in Air <sup>5</sup>			ISO 188
Across Flow : 230°F, 1008 hr	5.5	%	
Flow : 257°F, 168 hr	15	%	
Across Flow : 257°F, 1008 hr	6.8	%	
Flow : 257°F, 168 hr	6.1	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 230°F, 1008 hr <sup>6</sup>	3.8		
Shore A, 230°F, 1008 hr <sup>7</sup>	3.2		
Shore A, 230°F, 1008 hr <sup>8</sup>	3.9		
Shore A, 257°F, 168 hr <sup>7</sup>	1.6		
Shore A, 257°F, 168 hr <sup>6</sup>	2.5		
Shore A, 257°F, 168 hr <sup>8</sup>	2.7		

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec <sup>-1</sup> )	258	Pa·s	ASTM D3835

### Processing Information

Injection	Nominal Value	Unit
Rear Temperature	360 to 450	°F
Middle Temperature	370 to 460	°F
Front Temperature	380 to 470	°F
Nozzle Temperature	390 to 480	°F
Processing (Melt) Temp	390 to 480	°F
Mold Temperature	95 to 120	°F
Injection Pressure	200 to 800	psi
Injection Rate	Fast	
Back Pressure	25.0 to 100	psi
Screw Speed	50 to 100	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).

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	360 to 450	°F
Cylinder Zone 2 Temp.	370 to 460	°F
Cylinder Zone 3 Temp.	380 to 470	°F
Cylinder Zone 5 Temp.	390 to 480	°F
Die Temperature	390 to 480	°F

**Extrusion Notes**  
Screw Speed: 30 to 100 rpm

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### Notes

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

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<sup>2</sup> Type 1, 20 in/min

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<sup>3</sup> Method Ba, Angle (Unnicked), 20 in/min

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<sup>4</sup> Type A

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<sup>5</sup> Type 1

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<sup>6</sup> 5 sec

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<sup>7</sup> 1 sec

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<sup>8</sup> 15 sec