



# Sarlink® TPE EE-2268D

Teknor Apex Company - Thermoplastic Elastomer

## General Information

### Product Description

Sarlink EE-2268D is a medium impact, modified polypropylene used in transportation applications. Sarlink EE-2268D is a high hardness grade and UV resistant. This grade can be processed by extrusion.

### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Bondability • Filled • Good Colorability • Good Melt Strength	• Good Processability • High Hardness • High Viscosity • Light Stabilized	• Low Flow • Medium Density
Uses	• Automotive Applications • Automotive Exterior Parts	• Automotive Exterior Trim • General Purpose	
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available	• Natural Color	• Opaque
Forms	• Pellets		
Processing Method	• Extrusion		

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

Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.5	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	245000	psi	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>2</sup>			ISO 37
Across Flow : 100% Strain	2150	psi	
Flow : 100% Strain	2100	psi	
Tensile Stress <sup>2</sup>			ISO 37
Across Flow : Break	3160	psi	
Flow : Break	3640	psi	
Tensile Elongation <sup>2</sup>			ISO 37
Across Flow : Break	320	%	
Flow : Break	140	%	
Tear Strength <sup>3</sup>			ISO 34-1
Across Flow	1200	lbf/in	
Flow	799	lbf/in	
Compression Set <sup>4</sup>			ISO 815
73°F, 22 hr	63	%	
158°F, 22 hr	86	%	
194°F, 70 hr	93	%	
257°F, 70 hr	100	%	

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Hardness	Nominal Value	Unit	Test Method
Shore Hardness <sup>5</sup>			ISO 868
Shore D, 1 sec, Injection Molded	73		
Shore D, 5 sec, Injection Molded	69		
Shore D, 15 sec, Injection Molded	68		
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air <sup>6</sup>			ISO 188
Across Flow : 230°F, 1008 hr	1.8	%	
Flow : 230°F, 1008 hr	9.0	%	
Across Flow : 100% Strain 230°F, 1008 hr	12	%	
Flow : 100% Strain 230°F, 1008 hr	68	%	
Across Flow : 257°F, 168 hr	-2.8	%	
Flow : 257°F, 168 hr	2.4	%	
Across Flow : 100% Strain 257°F, 168 hr	15	%	
Flow : 100% Strain 257°F, 168 hr	75	%	
Change in Tensile Strain at Break in Air <sup>6</sup>			ISO 188
Across Flow : 230°F, 1008 hr	-58	%	
Flow : 230°F, 1008 hr	-7.2	%	
Across Flow : 257°F, 168 hr	-54	%	
Flow : 257°F, 168 hr	27	%	
Change in Shore Hardness in Air			ISO 188
Shore D, 230°F, 1008 hr <sup>7</sup>	2.3		
Shore D, 230°F, 1008 hr <sup>8</sup>	2.0		
Shore D, 230°F, 1008 hr <sup>9</sup>	2.0		
Shore C, 257°F, 168 hr <sup>9</sup>	1.1		
Shore D, 257°F, 168 hr <sup>7</sup>	1.3		
Shore D, 257°F, 168 hr <sup>8</sup>	1.2		
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec <sup>-1</sup> )	560	Pa·s	ASTM D3835

### Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	380 to 420	°F
Cylinder Zone 2 Temp.	420 to 460	°F
Cylinder Zone 3 Temp.	420 to 460	°F
Cylinder Zone 4 Temp.	420 to 460	°F
Cylinder Zone 5 Temp.	420 to 460	°F
Die Temperature	420 to 460	°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> Type 1, 20 in/min

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