# Sarlink® TPE AB-2140DN

#### Thermoplastic Elastomer

### Teknor Apex Company

#### Message:

Sarlink AB-2140D is a high hardness thermoplastic elastomer designed for automotive interior applications. Sarlink AB-2140D can be processed by injection molding.

General Information			
Features	Low density		
	Impact resistance, high		
	High hardness		
Uses	Application in Automobile Field		
	Car interior parts		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.898	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16			
kg)	11	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow: 80°C, 30 minutes	0.90	%	ASTM D955
Flow: 93°C, 30 minutes	1.2	%	ASTM D955
Flow: 80°C, 24 hours	0.90	%	ASTM D955
Transverse flow: 80°C, 24 hours	1.0	%	ASTM D955
Transverse flow: 80°C, 30 minutes	0.90	%	ASTM D955
Transverse flow: 93°C, 30 minutes	1.3	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore D, 1 second, injection molding	43		ASTM D2240
Shore D, 5 seconds, injection molding	40		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus			ASTM D790
-30°C	2080	MPa	ASTM D790
23°C	150	MPa	ASTM D790
70°C	62.0	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
Transverse flow: 100% strain	6.07	MPa	ASTM D412

Flow: 100% strain	7.42	MPa	ASTM D412
Tensile Strength			ASTM D412
Transverse flow: Yield	8.50	MPa	ASTM D412
Flow: Yield	9.00	MPa	ASTM D412
Tensile Elongation			ASTM D412
Transverse flow: Fracture	650	%	ASTM D412
Flow: Fracture	470	%	ASTM D412
Tear Strength - Across Flow <sup>1</sup>	62.0	kN/m	ASTM D624
Compression Set			ASTM D395
23°C, 22 hr	46	%	ASTM D395
70°C, 22 hr	81	%	ASTM D395
Impact	Nominal Value	Unit	Test Method
Instrumented Dart Impact			ASTM D3763
-40°C, peak load energy	22.4	J	ASTM D3763
23°C, peak load energy	18.4	J	ASTM D3763
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow			ISO 188
110°C, 1008 hr	0.0	%	ISO 188
125°C, 168 hr	-2.4	%	ISO 188
Changes in tensile stress upon fracture in air-Transverse flow			ISO 188
110°C, 1008 hr	-23	%	ISO 188
125°C, 168 hr	-32	%	ISO 188
Change in Shore Hardness in Air			ISO 188
Support d, 110°C, 1008 hr	1.1		ISO 188
Support d, 125°C, 168 hr	1.0		ISO 188
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-60.0	°C	ASTM D746
Flammability	Nominal Value	Unit	Test Method
Burning Rate	25	mm/min	ISO 3795
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (200°C, 206 sec^-1)	267	Pa·s	ASTM D3835

Additional Information

撕裂强度ASTM D624试验中所列的数值,依照ASTM D1004进行试验.模具收缩,线性变换,ASTM D955,80℃,30分钟:0.009英寸/英寸模具收缩,线性变换,ASTM D955,93℃,30分钟:0.013 英寸/英寸

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Injection	Nominal Value	Unit		
Rear Temperature	199 - 210	°C		
Middle Temperature	204 - 216	°C		
Front Temperature	210 - 221	°C		
Nozzle Temperature	216 - 227	°C		
Processing (Melt) Temp	216 - 227	°C		
Mold Temperature	35.0 - 65.6	°C		
Injection Pressure	1.38 - 6.89	MPa		
Injection Rate	Fast			
Back Pressure	0.172 - 0.862	MPa		
Screw Speed	50 - 120	rpm		
Cushion	3.81 - 25.4	mm		
Injection instructions				
无需干燥.但如果湿度过大,则将粒料在150°F (65°C)的温度下干燥2-4小时.				
NOTE				
1.	C mould			

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