

Sarlink® TPE AB-2349DN

Thermoplastic Elastomer

Teknor Apex Company

Message:

Sarlink®TPE AB-2349DN is a thermoplastic elastomer (TPE) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing method is injection molding.

Sarlink®The main features of TPE AB-2349DN are:

high hardness

Good tear strength

Sarlink®The typical application field of TPE AB-2349DN is: automobile industry

General Information			
Features	Low Specific Gravity		
	Low to No Fogging		
	Low density		
	smoothness		
	Light stabilization		
	Good tear strength		
	Low liquidity		
	High hardness		
Uses	Application in Automobile Field		
	Car interior parts		
Appearance	Translucent		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	9.0	g/10 min	ISO 1133
Molding Shrinkage			ISO 2577
Vertical flow direction: 23°C, 48 hours	1.4	%	ISO 2577
Flow direction: 23°C, 48 hours	1.4	%	ISO 2577
Water Absorption			ISO 62
Saturated, 23°C	0.10	%	ISO 62
Equilibrium, 23°C, 50% RH	0.010	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	49		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C, 2.00 mm	92.7	MPa	ISO 527-2/1

85°C, 2.00 mm	34.5	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/500
Fracture, -35°C, 2.00mm	22.6	MPa	ISO 527-2/500
Fracture, 23°C, 2.00mm	11.5	MPa	ISO 527-2/500
Fracture, 85°C, 2.00mm	5.17	MPa	ISO 527-2/500
100% strain, -35 c, 2.00mm	21.9	MPa	ISO 527-2/500
100% strain, 23°C, 2.00mm	11.5	MPa	ISO 527-2/500
100% strain, 85°C, 2.00mm	5.43	MPa	ISO 527-2/500
Tensile Strain			
Fracture	390	%	ISO 527-2
Fracture, -35°C, 2.00mm	250	%	ISO 527-2/500
Fracture, 23°C, 2.00mm	420	%	ISO 527-2/500
Flexural Modulus ¹			ISO 178
23°C	293	MPa	ISO 178
85°C	111	MPa	ISO 178
Elastomers	Nominal Value	Unit	Test Method
Tear Strength			ISO 34-1
-35°C	130	kN/m	ISO 34-1
23°C	78	kN/m	ISO 34-1
85°C ²	19	kN/m	ISO 34-1
85°C ³	36	kN/m	ISO 34-1
85°C ⁴	39	kN/m	ISO 34-1
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	60.0	°C	ISO 75-2/B
Glass Transition Temperature	-55.0	°C	DSC
Melting Temperature (DSC)	162	°C	ISO 3146
Additional Information			
最大吸水率 (在23 °C的平衡状态空气中,50%相对湿度 = 0.01%最大吸水率(在23 °C的水中)= 0.01%火灾水平蔓延速率 (FMVSS 302)(试样厚度:1.0毫米)= 0.079 厚度 // 2.1 英寸/分钟雾化(3小时 @ 100 °C,21 °C 冷却板)= 96			
Injection	Nominal Value	Unit	
Rear Temperature	216 - 227	°C	
Middle Temperature	221 - 238	°C	
Front Temperature	227 - 243	°C	
Nozzle Temperature	232 - 249	°C	
Processing (Melt) Temp	232 - 249	°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.	2.0 mm/min
2.	Method A, Pant-Shaped Specimen
3.	Method B, right-angle specimen (without cut)
4.	Method B, right-angle specimen (cut)

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

