

Sarlink® TPE AB-1241DN

Thermoplastic Elastomer

Teknor Apex Company

Message:

Sarlink® TPE AB-1241DN 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 typical application field of TPE AB-1241DN is: automobile industry

General Information			
Uses	Car interior parts		
Appearance	Translucent		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.960	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ISO 1133
Molding Shrinkage			ISO 2577
Vertical flow direction: 23°C, 48 hours	1.1	%	ISO 2577
Flow direction: 23°C, 48 hours	1.1	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 10 sec)	41		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2
23°C	66.0	MPa	ISO 527-2
85°C	19.0	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Fracture, -35°C	24.0	MPa	ISO 527-2
Fracture, 23°C	19.9	MPa	ISO 527-2
Fracture, 85°C	5.20	MPa	ISO 527-2
100% strain, -35 c	16.3	MPa	ISO 527-2
100% strain, 23°C	7.80	MPa	ISO 527-2
100% strain, 85°C	0.400	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Fracture, -35°C	450	%	ISO 527-2
Fracture, 23°C	700	%	ISO 527-2
Fracture, 85°C	> 600	%	ISO 527-2
Flexural Modulus			ISO 178
23°C	149	MPa	ISO 178
85°C	65.6	MPa	ISO 178
Elastomers	Nominal Value	Unit	Test Method

Tear Strength			ISO 34-1
-35°C	130	kN/m	ISO 34-1
23°C	80	kN/m	ISO 34-1
85°C ¹	27	kN/m	ISO 34-1
85°C ²	46	kN/m	ISO 34-1
85°C ³	40	kN/m	ISO 34-1
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Annealed)	43.9	°C	ISO 75-2/B
Glass Transition Temperature	-60.0	°C	DSC
Melting Temperature (DSC)	159	°C	ISO 3146
Flammability	Nominal Value	Unit	Test Method
Burning Rate (2.00 mm)	83	mm/min	FMVSS 302
Additional Information			
雾化,3小时,100C = 97%			
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.			
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	193 - 204	°C	
Cylinder Zone 2 Temp.	199 - 210	°C	
Cylinder Zone 3 Temp.	204 - 216	°C	
Cylinder Zone 5 Temp.	210 - 221	°C	
Die Temperature	216 - 227	°C	
Extrusion instructions			
螺杆转速30 - 100 rpm			
NOTE			
1.	Method A, Pant-Shaped Specimen		
2.	Method B, right-angle specimen (without cut)		
3.	Method B, right-angle specimen (cut)		

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