

Sarlink® TPE AB-2244N

Thermoplastic Elastomer

Teknor Apex Company

Message:

Sarlink®TPE AB-2244N 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.

Typical application areas include:

Automotive Industry
engineering/industrial accessories

General Information			
Uses	Blow molding applications		
	Washer		
	Weather-resistant sealing strip		
	Application in Automobile Field		
	Car interior parts		
	Automotive exterior parts		
	Car exterior decoration		
	General		
Appearance	Translucent		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.960	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.0	g/10 min	ASTM D1238
Molding Shrinkage			ISO 2557
Flow: 23°C, 48 hours, 2.00mm	1.1	%	ISO 2557
Transverse flow: 23°C, 48 hours, 2.00mm	1.1	%	ISO 2557
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 10 sec)	44		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C, 2.00 mm)	95.6	MPa	ISO 527-2
Flexural Modulus ¹ (23°C, 2.00 mm)	214	MPa	ISO 178
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ² (100% strain, 23°C, 2.00mm)	9.17	MPa	ASTM D412
Tensile Strength ³ (Break, 23°C, 2.00 mm)	20.9	MPa	ASTM D412
Tensile Elongation (Break)	690	%	ASTM D412
Tear Strength ⁴ (23°C, 2.00 mm)	87.6	kN/m	ASTM D624
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature (0.45 MPa, Unannealed)	47.0	°C	ISO 75-2/B
Glass Transition Temperature	-55.0	°C	DSC
Flammability	Nominal Value	Unit	Test Method
Burning Rate (2.00 mm)	62	mm/min	FMVSS 302
Fogging ⁵	96.0		SAE J1756
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

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150°F (65°C).

NOTE

1. 2.0 mm/min
2. 500 mm/min
3. 500 mm/min
4. 500 mm/min
5. 3 hrs @ 100°C, 21°C Plate

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