

Sarlink® TPE EE-2270N-01

Thermoplastic Elastomer

Teknor Apex Company

Message:

Sarlink® TPE EE-2270N-01 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: extrusion. Sarlink® The main characteristics of TPE EE-2270N-01 are: sunlight resistance. Typical application areas include:
Automotive Industry
engineering/industrial accessories

General Information			
Features	Low Specific Gravity		
	Sunlight Resistant		
	Low density		
	smoothness		
	Light stabilization		
	Low liquidity		
	Lubrication		
	Fill		
	Medium hardness		
	UV absorption		
Uses	Washer		
	Weather-resistant sealing strip		
	Application in Automobile Field		
	Car interior parts		
	Automotive exterior parts		
	Car exterior decoration		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	5.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ISO 868
Shore A, 1 second, injection molding	72		ISO 868
Shore A, 5 seconds, injection molding	68		ISO 868
Shore A, 15 seconds, injection molding	67		ISO 868
Elastomers	Nominal Value	Unit	Test Method

Tensile Stress ¹			ISO 37
Transverse flow: 100% strain	2.11	MPa	ISO 37
Flow: 100% strain	2.78	MPa	ISO 37
Tensile Stress ²			ISO 37
Transverse flow: Fracture	10.6	MPa	ISO 37
Flow: Fracture	7.70	MPa	ISO 37
Tensile Elongation ³			ISO 37
Transverse flow: Fracture	770	%	ISO 37
Flow: Fracture	610	%	ISO 37
Tear Strength ⁴			ISO 34-1
Transverse flow	35	kN/m	ISO 34-1
Flow	36	kN/m	ISO 34-1
Compression Set ⁵			ISO 815
23°C, 22 hr	24	%	ISO 815
70°C, 22 hr	52	%	ISO 815
90°C, 70 hr	65	%	ISO 815
125°C, 70 hr	81	%	ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air ⁶			ISO 188
Transverse flow: 110°C, 1008 hr	3.7	%	ISO 188
Flow: 110°C, 1008 hr	-0.40	%	ISO 188
Transverse flow: 100% strain 110°C, 1008 hr	13	%	ISO 188
Flow: 100% strain 110°C, 1008 hr	7.6	%	ISO 188
Transverse flow: 125°C, 168 hr	-0.90	%	ISO 188
Flow: 125°C, 168 hr	-3.9	%	ISO 188
Transverse flow: 100% strain 125°C, 168 hr	11	%	ISO 188
Flow: 100% strain 125°C, 168 hr	9.4	%	ISO 188
Change in Tensile Strain at Break in Air ⁷			ISO 188
Transverse flow: 110°C, 1008 hr	-1.6	%	ISO 188
Flow: 110°C, 1008 hr	0.0	%	ISO 188
Transverse flow: 125°C, 168 hr	-3.9	%	ISO 188
Flow: 125°C, 168 hr	-3.3	%	ISO 188
Change in Shore Hardness in Air			ISO 188
Support a, 110°C, 1008 hr ⁸	4.9		ISO 188
Support a, 110°C, 1008 hr ⁹	6.1		ISO 188
Support a, 110°C, 1008 hr ¹⁰	6.4		ISO 188
Support a, 125°C, 168 hr ¹¹	3.3		ISO 188
Support a, 125°C, 168 hr ¹²	4.0		ISO 188
Support a, 125°C, 168 hr ¹³	4.4		ISO 188
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (200°C, 206 sec ⁻¹)	244	Pa · s	ASTM D3835

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.	Type 1, 510mm/min
2.	Type 1, 510mm/min
3.	Type 1, 510mm/min
4.	B method, right angle specimen (without cut), 510mm/min
5.	Type a
6.	Type 1
7.	Type 1
8.	1 sec
9.	5 sec
10.	15 sec
11.	1 sec
12.	5 sec
13.	15 sec

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