

Sarlink® TPE EE-2272N

Thermoplastic Elastomer

Teknor Apex Company

Message:

Sarlink®TPE EE-2272N 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 or injection molding. Sarlink®The main characteristics of TPE EE-2272N are: sunlight resistance.

Typical application areas include:

Automotive Industry
engineering/industrial accessories

General Information			
Features	Sunlight Resistant		
	High specific gravity		
	High density		
	Light stabilization		
	Low liquidity		
	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	Opacity		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.40	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ISO 868
Shore A, 1 second, injection molding	75		ISO 868
Shore A, 5 seconds, injection molding	72		ISO 868
Shore A, 15 seconds, injection molding	70		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	2.90	MPa	ISO 37
Tensile Stress ²			ISO 37
Transverse flow: Fracture	8.70	MPa	ISO 37
Flow: Fracture	5.80	MPa	ISO 37
Tensile Elongation ³			ISO 37
Transverse flow: Fracture	790	%	ISO 37
Flow: Fracture	620	%	ISO 37
Tear Strength ⁴			ISO 34-1
Transverse flow	28	kN/m	ISO 34-1
Flow	31	kN/m	ISO 34-1
Compression Set ⁵			ISO 815
23°C, 22 hr	20	%	ISO 815
70°C, 22 hr	44	%	ISO 815
90°C, 70 hr	64	%	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	-4.0	%	ISO 188
Flow: 110°C, 1008 hr	-5.9	%	ISO 188
Transverse flow: 100% strain 110°C, 1008 hr	18	%	ISO 188
Flow: 100% strain 110°C, 1008 hr	16	%	ISO 188
Transverse flow: 125°C, 168 hr	-2.3	%	ISO 188
Flow: 125°C, 168 hr	-8.6	%	ISO 188
Transverse flow: 100% strain 125°C, 168 hr	11	%	ISO 188
Flow: 100% strain 125°C, 168 hr	12	%	ISO 188
Change in Tensile Strain at Break in Air ⁷			ISO 188
Transverse flow: 110°C, 1008 hr	-1.3	%	ISO 188
Flow: 110°C, 1008 hr	-5.2	%	ISO 188
Transverse flow: 125°C, 168 hr	-2.8	%	ISO 188
Flow: 125°C, 168 hr	-11	%	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	5.0		ISO 188
Support a, 110°C, 1008 hr ¹⁰	3.4		ISO 188
Support a, 125°C, 168 hr ¹¹	3.9		ISO 188
Support a, 125°C, 168 hr ¹²	3.6		ISO 188
Support a, 125°C, 168 hr ¹³	2.4		ISO 188
Fill Analysis	Nominal Value	Unit	Test Method

Apparent Viscosity (200°C, 206 sec ⁻¹)	277	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.	5 sec		
9.	15 sec		
10.	1 sec		
11.	15 sec		
12.	5 sec		
13.	1 sec		

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