Sarlink® TPE ML-1640N NAT (PRELIMINARY DATA)

Thermoplastic Elastomer

Teknor Apex Company

Message:

Sarlink ML-1600 series is a high performance, high flow thermoplastic elastomer series, available in NAT and BLK designed for automotive interior applications. Sarlink ML-1640N NAT is a low hardness, medium density grade with excellent surface appearance suitable for injection molding.

General Information			
Features	Sunlight Resistant		
	Good formability		
	Good flexibility		
	Good tear strength		
	Good adhesion		
	High liquidity		
	Good chemical resistance		
	Good toughness		
	Fill		
	Hardness, low		
	Excellent appearance		
	Elastic		
	Medium density		
Uses	Washer		
	Application in Automobile Field		
	Car interior parts		
	Soft touch application		
	Soft handle		
	Rubber substitution		
	Knob		
RoHS Compliance	RoHS compliance		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.00	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16	6.0	g/10 min	ASTM D1238
kg)	0.0	9/10/1111	

Nominal Value	Unit	Test Method
		ISO 868
43		ISO 868
41		ISO 868
39		ISO 868
Nominal Value	Unit	Test Method
		ISO 37
0.840	MPa	ISO 37
1.26	MPa	ISO 37
		ISO 37
5.70	MPa	ISO 37
4.30	MPa	ISO 37
		ISO 37
980	%	ISO 37
820	%	ISO 37
		ISO 34-1
16	kN/m	ISO 34-1
18	kN/m	ISO 34-1
		ISO 815
16	%	ISO 815
33	%	ISO 815
61	%	ISO 815
90	%	ISO 815
Nominal Value	Unit	Test Method
		ISO 188
23	%	ISO 188
33	%	ISO 188
0.96		ISO 188
3.0	%	ISO 188
22	%	ISO 188
33	%	ISO 188
2.2	0/	150 199
2.3	70	ISO 188
7 5	0/	100 199
7.5	%	ISO 188
		ISO 188
11	%	ISO 188 ISO 188
11 15	%	ISO 188 ISO 188 ISO 188
11 15 27	% % %	ISO 188 ISO 188 ISO 188 ISO 188
11 15	%	ISO 188 ISO 188 ISO 188 ISO 188 ISO 188
11 15 27	% % %	ISO 188 ISO 188 ISO 188 ISO 188
	43 41 39 Nominal Value 0.840 1.26 5.70 4.30 5.70 4.30 980 820 980 820 980 820 16 16 18 10 16 18 12 10 10 10 10 12 10 10 10 10 10 10 10 10 10 10 10 10 10	43 41 39 Nominal Value Unit 0.840 MPa 1.26 MPa 5.70 MPa 4.30 MPa 980 % 820 % 116 kN/m 18 kN/m 16 % 33 % 61 % 90 % 33 % 93 % 33 % 33 % 33 % 33 % 33 % 33 % 33 % 33 % 33 %

Shao A, 110°C, 1008 hr ¹⁰	0.30		ISO 188
Shao A, 125°C, 168 hr ¹¹	1.8		ISO 188
Shao A, 125°C, 168 hr ¹²	1.4		ISO 188
Shao A, 125°C, 168 hr ¹³	0.90		ISO 188
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (200°C, 206 sec^-1)	122	Pa·s	ASTM D3835
l egal statement			

Legal statement

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Injection	Nominal Value	Unit
Rear Temperature	171 - 193	°C
Middle Temperature	177 - 199	°C
Front Temperature	182 - 204	°C
Nozzle Temperature	188 - 210	°C
Processing (Melt) Temp	188 - 210	°C
Mold Temperature	25 - 66	°C
Injection Pressure	1.38 - 6.89	MPa
Injection Rate	Moderate-Fast	
Back Pressure	0.172 - 0.345	MPa
Screw Speed	50 - 100	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.	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.	Туре а
6.	Type 1
7.	Type 1
8.	15 sec
9.	5 sec
10.	1 sec
11.	15 sec
12.	5 sec
13.	1 sec

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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

