

Sarlink® TPE EE-1240N

Thermoplastic Elastomer

Teknor Apex Company

Message:

Sarlink® TPE EE-1240N 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-1240N are: low hardness.

Typical application areas include:

Automotive Industry

engineering/industrial accessories

General Information	
Features	High specific gravity High density smoothness Low liquidity Lubrication Fill Hardness, low
Uses	Washer Weather-resistant sealing strip Application in Automobile Field Car interior parts Automotive exterior parts Car exterior decoration General
Appearance	Opacity
Forms	Particle
Processing Method	Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.17	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.20	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ISO 868
Shore A, 1 second, injection molding	45		ISO 868
Shore A, 5 seconds, injection molding	42		ISO 868
Shore A, 15 seconds, injection molding	40		ISO 868
Elastomers	Nominal Value	Unit	Test Method

Tensile Stress ¹			ISO 37
Transverse flow: 100% strain	0.690	MPa	ISO 37
Flow: 100% strain	1.15	MPa	ISO 37
Tensile Stress ²			ISO 37
Transverse flow: Fracture	5.40	MPa	ISO 37
Flow: Fracture	3.40	MPa	ISO 37
Tensile Elongation ³			ISO 37
Transverse flow: Fracture	890	%	ISO 37
Flow: Fracture	660	%	ISO 37
Tear Strength ⁴			ISO 34-1
Transverse flow	15	kN/m	ISO 34-1
Flow	19	kN/m	ISO 34-1
Compression Set ⁵			ISO 815
23°C, 22 hr	11	%	ISO 815
70°C, 22 hr	28	%	ISO 815
90°C, 70 hr	56	%	ISO 815
125°C, 70 hr	76	%	ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air ⁶			ISO 188
Transverse flow: 110°C, 1008 hr	30	%	ISO 188
Flow: 110°C, 1008 hr	47	%	ISO 188
Transverse flow: 100% strain 110°C, 1008 hr	7.3	%	ISO 188
Flow: 100% strain 110°C, 1008 hr	-3.5	%	ISO 188
Transverse flow: 125°C, 168 hr	39	%	ISO 188
Flow: 125°C, 168 hr	56	%	ISO 188
Transverse flow: 100% strain 125°C, 168 hr	12	%	ISO 188
Flow: 100% strain 125°C, 168 hr	-3.5	%	ISO 188
Change in Tensile Strain at Break in Air ⁷			ISO 188
Transverse flow: 110°C, 1008 hr	-1.1	%	ISO 188
Flow: 110°C, 1008 hr	20	%	ISO 188
Transverse flow: 125°C, 168 hr	3.0	%	ISO 188
Flow: 125°C, 168 hr	27	%	ISO 188
Change in Shore Hardness in Air			ISO 188
Support a, 110°C, 1008 hr ⁸	2.2		ISO 188
Support a, 110°C, 1008 hr ⁹	3.3		ISO 188
Support a, 110°C, 1008 hr ¹⁰	4.0		ISO 188
Support a, 125°C, 168 hr ¹¹	0.20		ISO 188
Support a, 125°C, 168 hr ¹²	0.60		ISO 188
Support a, 125°C, 168 hr ¹³	0.90		ISO 188
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (200°C, 206 sec ⁻¹)	258	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

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

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

Screw Speed: 30 to 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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