

Sarlink® TPV 24587

Thermoplastic Elastomer

Teknor Apex Company

Message:

Sarlink TPV 24587 is a high performance thermoplastic vulcanizate used in automotive applications. Sarlink TPV 24587 is a high hardness grade exhibiting sunlight resistance and UV absorbing characteristics. This grade can be processed by injection molding and extrusion.

General Information			
UL YellowCard	E54709-245357	E142591-101723976	
Features	Low Specific Gravity		
	Sunlight Resistant		
	Low density		
	smoothness		
	Light stabilization		
	Low liquidity		
	Lubrication		
	Fill		
	High hardness		
	UV absorption		
Uses	Plug		
	Washer		
	Washer		
	Pipe fittings		
	Shock Absorbing Pad		
	Weather-resistant sealing strip		
	Expansion Joint		
Appearance	Opacity		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ISO 868
Shore A, 1 second, injection molding	90		ISO 868
Shore A, 5 seconds, injection molding	87		ISO 868

Shore A, 15 seconds, injection molding	86		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹			ISO 37
Transverse flow: 100% strain	5.77	MPa	ISO 37
Flow: 100% strain	8.43	MPa	ISO 37
Tensile Stress ²			ISO 37
Transverse flow: Fracture	9.20	MPa	ISO 37
Flow: Fracture	12.1	MPa	ISO 37
Tensile Elongation ³			ISO 37
Transverse flow: Fracture	470	%	ISO 37
Flow: Fracture	440	%	ISO 37
Tear Strength ⁴			ISO 34-1
Transverse flow	74	kN/m	ISO 34-1
Flow	45	kN/m	ISO 34-1
Compression Set ⁵			ISO 815
23°C, 22 hr	32	%	ISO 815
70°C, 22 hr	49	%	ISO 815
90°C, 70 hr	58	%	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	1.1	%	ISO 188
Flow: 110°C, 1008 hr	-2.5	%	ISO 188
Transverse flow: 100% strain 110°C, 1008 hr	12	%	ISO 188
Flow: 100% strain 110°C, 1008 hr	19	%	ISO 188
Transverse flow: 125°C, 168 hr	-0.80	%	ISO 188
Flow: 125°C, 168 hr	9.1	%	ISO 188
Transverse flow: 100% strain 125°C, 168 hr	13	%	ISO 188
Flow: 100% strain 125°C, 168 hr	33	%	ISO 188
Change in Tensile Strain at Break in Air ⁷			ISO 188
Transverse flow: 110°C, 1008 hr	-9.6	%	ISO 188
Flow: 110°C, 1008 hr	-20	%	ISO 188
Transverse flow: 125°C, 168 hr	-18	%	ISO 188
Flow: 125°C, 168 hr	-32	%	ISO 188
Change in Shore Hardness in Air			ISO 188
Support a, 110°C, 1008 hr ⁸	0.50		ISO 188
Support a, 110°C, 1008 hr ⁹	0.20		ISO 188
Support a, 110°C, 1008 hr ¹⁰	0.10		ISO 188
Support a, 125°C, 168 hr ¹¹	0.50		ISO 188
Support a, 125°C, 168 hr ¹²	0.20		ISO 188
Support a, 125°C, 168 hr ¹³	0.10		ISO 188

Thermal	Nominal Value	Unit	Test Method
RTI Elec	50.0	°C	UL 746
RTI Imp	50.0	°C	UL 746
RTI	50.0	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm, All Colors)	HB		UL 94
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (200°C, 206 sec ⁻¹)	264	Pa·s	ASTM D3835
Legal statement			

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Injection	Nominal Value	Unit
Rear Temperature	173 - 213	°C
Middle Temperature	179 - 219	°C
Front Temperature	184 - 224	°C
Nozzle Temperature	190 - 230	°C
Processing (Melt) Temp	190 - 230	°C
Mold Temperature	35.0 - 60.0	°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
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	166 - 204	°C
Cylinder Zone 2 Temp.	171 - 210	°C
Cylinder Zone 3 Temp.	177 - 216	°C
Cylinder Zone 5 Temp.	182 - 221	°C
Die Temperature	190 - 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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