Sarlink® TPV 10045B BLACK (PRELIMINARY DATA)

Thermoplastic Vulcanizate

Teknor Apex Company

Message:

Sarlink TPV 10045B BLACK is a high performance thermoplastic vulcanizate used in automotive applications. Sarlink TPV 10045B BLACK is a medium hardness, low density, lubricated, UV resistant grade exhibiting superior compression set and chemical resistance. This grade is designed for injection molding.

General Information			
Features	Low Specific Gravity		
	Low compressive deformability		
	Low density		
	Good UV resistance		
	Good chemical resistance		
	Heat resistance, high		
	Lubrication		
	Medium hardness		
Uses	Application in Automobile Field		
	Automotive exterior parts		
	Rubber substitution		
RoHS Compliance	RoHS compliance		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.920	g/cm³	ISO 1183
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ISO 868
Shaw A, 5 seconds, extruded	45		ISO 868
Shore A, 5 seconds, injection molding	48		ISO 868
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ISO 37
Transverse flow: 100% strain	2.00	MPa	ISO 37
Flow: 100% strain	1.20	MPa	ISO 37
Tensile Stress			ISO 37
Transverse flow: Fracture	2.90	MPa	ISO 37

Flow: Fracture	3.20	MPa	ISO 37
Tensile Elongation			ISO 37
Transverse flow: Fracture	280	%	ISO 37
Flow: Fracture	450	%	ISO 37
Tear Strength - Across Flow [1]	14	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 22 hr	17	%	ISO 815
70°C, 22 hr	24	%	ISO 815
125°C, 70 hr	46	%	ISO 815

Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow			ISO 188
135°C, 1008 hr	-10	%	ISO 188
100% strain 135°C, 1008 hr	2.0	%	ISO 188
150°C, 168 hr	-15	%	ISO 188
100% strain 150°C, 168 hr	-5.0	%	ISO 188
Changes in tensile stress upon fracture in air-Transverse flow			ISO 188
135°C, 1008 hr	-1.0	%	ISO 188
150°C, 168 hr	-10	%	ISO 188
Change in Shore Hardness in Air			ISO 188
Shao A, 135°C, 1008 hr	2.0		ISO 188
Shao A, 150°C, 168 hr	0.0		ISO 188
Change in Volume (125°C, 70 hr, in IRM 903 Oil)	78	%	ISO 1817

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (200°C, 206 sec^-1)	125	Pa·s	ASTM D3835

Legal statement

Injection	Nominal Value	Unit
Rear Temperature	180 - 205	°C
Middle Temperature	180 - 205	°C
Front Temperature	180 - 205	°C
Nozzle Temperature	185 - 210	°C
Processing (Melt) Temp	185 - 210	°C
Mold Temperature	10 - 55	°C
Back Pressure	0.100 - 1.00	MPa
Screw Speed	100 - 200	rpm

NOTE	
1.	Method B, right-angle specimen (without cut)

Recommended distributors for this material

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WECHAT