

Sarlink® TPV 4785B40

Thermoplastic Vulcanizate

Teknor Apex Company

Message:

A highly engineered Thermoplastic Elastomer for use in demanding applications. Sarlink® X4785BLK40 is a black, medium hardness UV stable grade possessing superior compression set, chemical resistance and high temperature performance. This product is a high flow material designed for injection molding applications that require superior flow properties.

General Information			
Additive	UV Stabilizer		
Features	Good Chemical Resistance		
	High Flow		
	High Heat Resistance		
	Low Compression Set		
	Medium Hardness		
Appearance	Opaque		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.908	g/cm ³	ASTM D792
--	0.910	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240, ISO 868
Shore A, 5 sec, Extruded	84		
Shore A, 5 sec, Injection Molded	86		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412, ISO 37
Across Flow : 100% Strain	4.80	MPa	
Flow : 100% Strain	5.50	MPa	
Tensile Strength			
Across Flow : Break	9.51	MPa	ASTM D412
Flow : Break	8.89	MPa	ASTM D412
Across Flow : Break	9.50	MPa	ISO 37
Flow : Break	8.90	MPa	ISO 37
Tensile Elongation			ASTM D412, ISO 37
Across Flow : Break	540	%	
Flow : Break	450	%	
Tear Strength - Across Flow			
--	40.3	kN/m	ASTM D624

-- 1	40	kN/m	ISO 34-1
Compression Set			ASTM D395, ISO 815
23°C, 22 hr	32	%	
70°C, 22 hr	44	%	
125°C, 70 hr	72	%	
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow			
135°C, 1000 hr	-4.0	%	ASTM D573, ISO 188
100% Strain, 135°C, 1000 hr	9.0	%	ASTM D573
150°C, 168 hr	-10	%	ASTM D573, ISO 188
100% Strain, 150°C, 168 hr	7.0	%	ASTM D573
100% Strain 135°C, 1000 hr	9.0	%	ISO 188
100% Strain 150°C, 168 hr	7.0	%	ISO 188
Change in Ultimate Elongation in Air - Across Flow			ASTM D573, ISO 188
135°C, 1000 hr	-14	%	
150°C, 168 hr	-18	%	
Change in Durometer Hardness in Air			ASTM D573, ISO 188
Shore A, 135°C, 1000 hr	1.0		
Shore A, 150°C, 168 hr	3.0		
Change in Volume (125°C, 70 hr, in IRM 903 Oil)	65	%	ASTM D471, ISO 1817
Additional Information	Nominal Value	Unit	Test Method
Apparent Shear Viscosity - Capillary @ 206/s			
200°C	190	Pa · s	ISO 11443
200°C	190	Pa · s	ASTM D3835
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	3.0	hr	
Rear Temperature	177 to 216	°C	
Middle Temperature	177 to 216	°C	
Front Temperature	177 to 216	°C	
Nozzle Temperature	188 to 221	°C	
Processing (Melt) Temp	182 to 232	°C	
Mold Temperature	10.0 to 65.6	°C	
Back Pressure	0.0689 to 1.03	MPa	
Screw Speed	100 to 200	rpm	
Screw L/D Ratio	20.0:1.0		
NOTE			

1. Method Ba, Angle (Unnicked)

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