TECHNICAL DATA SHEET

Sarlink® 4785B40

Teknor Apex Co.

TPV

Processing

Injection molding

Delivery Form

Black

Special Characteristics

Heat stabilized or stable to heat

Chemical Resistance

General chemical resistance

Applications

Automotive, Encapsulation

Product Text

Product Information

The Sarlink TPV 4700 Series are high flow injection molding engineering grades with excellent UV resistance, elasticity, and surface aesthetics designed for demanding automotive applications including window encapsulation and exterior parts. Sarlink TPV 4785B40 is a black, medium hardness, low density thermoplastic vulcanizate suited for injection molding applications that require superior flow properties.

Property	Value	Unit	Standard
Tensile properties (Cross Flow Direction)			ISO 37
Tensile strength at break	9,5	MPa	
Modulus at 100% elongation	4,8	MPa	
Elongation at break	540	%	
Hot air aging (168h/150°C, Cross Flow Direction)			ISO 188
Change in hardness	3	points	
Change in tensile strength at break	-10	%	
Change in modulus at 100% elongation	7	%	
Change in elongation at break	-18	%	
Hot air aging (1000h/135°C, Cross Flow Direction)			ISO 188
Change in hardness	1	points	
Change in tensile strength at break	-4	%	
Change in modulus at 100% elongation	9	%	
Change in elongation at break	-14	%	
Volume swell (70h/125°C in IRM 903 oil)	65	%	ISO 1817

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Apparent shear viscosity @ 206 1/s, 200°C	190	Pa.s	ISO 11443 Capillary

Mechanical Properties	Value	Unit	Standard
Stress at 100% elongation	5.5	MPa	ISO 37
Strain at break TPE	450	%	ISO 37
Stress at break TPE	8.9	MPa	ISO 37
Compression set at 23 °C, 24h	32	%	
Compression set at 70 °C, 24h	44	%	ISO 815
Shore A hardness, 15s	86		ISO 7619-1

Other Properties	Value	Unit	Standard
Density	910	kg/m³	ISO 1183