

Sarlink® TPE ME-2665B BLK (PRELIMINARY DATA)

Thermoplastic Elastomer
Teknor Apex Company

Message:

Sarlink ME-2665B BLK XRD is a low density high flow TPE designed for automotive exterior applications including window encapsulation. This is a UV stabilized grade suitable for injection molding.

General Information			
Features	Low Specific Gravity		
	Sunlight Resistant		
	Low density		
	Light stabilization		
	High liquidity		
	Fill		
	Medium hardness		
	UV absorption		
Uses	Automotive Window Encapsulation		
	Application in Automobile Field		
	Automotive exterior parts		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.939	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ISO 868
Shore A, 1 second, injection molding	67		ISO 868
Shore A, 5 seconds, injection molding	62		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹			ISO 37
Transverse flow: 100% strain	1.60	MPa	ISO 37
Flow: 100% strain	1.89	MPa	ISO 37
Tensile Stress ²			ISO 37
Transverse flow: Fracture	9.80	MPa	ISO 37

Flow: Fracture	7.90	MPa	ISO 37
Tensile Elongation ³			ISO 37
Transverse flow: Fracture	890	%	ISO 37
Flow: Fracture	770	%	ISO 37
Tear Strength ⁴			ISO 34-1
Transverse flow	26	kN/m	ISO 34-1
Flow	27	kN/m	ISO 34-1
Compression Set ⁵			ISO 815
23°C, 22 hr	23	%	ISO 815
70°C, 22 hr	35	%	ISO 815
90°C, 70 hr	56	%	ISO 815

Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow ⁶			ISO 188
110°C, 1008 hr	0.0	%	ISO 188
100% strain 110°C, 1008 hr	13	%	ISO 188
125°C, 168 hr	3.1	%	ISO 188
100% strain 125°C, 168 hr	11	%	ISO 188
Changes in tensile stress upon fracture in air-Transverse flow ⁷			ISO 188
110°C, 1008 hr	3.2	%	ISO 188
125°C, 168 hr	5.3	%	ISO 188
Change in Shore Hardness in Air ⁸			ISO 188
Support a, 110°C, 1008 hr	3.4		ISO 188
Support a, 125°C, 168 hr	3.6		ISO 188

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (200°C, 206 sec ⁻¹)	129	Pa · s	ASTM D3835

Legal statement

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Injection	Nominal Value	Unit
Rear Temperature	170 - 190	°C
Middle Temperature	175 - 195	°C
Front Temperature	180 - 205	°C
Nozzle Temperature	180 - 205	°C
Processing (Melt) Temp	180 - 205	°C
Mold Temperature	15.0 - 40.0	°C
Injection Pressure	1.38 - 6.89	MPa
Injection Rate	Moderate-Fast	

Back Pressure	0.172 - 0.862	MPa
Screw Speed	50 - 100	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 176°F (80°C).

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.	5 sec

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