Sarlink® TPE ME-2685B (PRELIMINARY DATA)

Thermoplastic Elastomer

Teknor Apex Company

Message:

The Sarlink ME-2600 Series is a super high flow high performance thermoplastic elastomer series, available in BLK, designed for automotive exterior molded applications, including window encapsulation. Sarlink ME-2685B is a higher hardness, low density, resilient, UV stabilized, super high flow injection molding grade delivering excellent aesthetics with good adhesion to glass with primer.

General Information			
Features	Low Specific Gravity Excellent appearance Low density Good UV resistance Workability, good Good adhesion High liquidity Good chemical resistance Elastic Medium hardness		
Uses	Car window package 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	0.938	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	31	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ISO 868
1 second, injection molding	84		ISO 868
5 seconds, injection molding	82		ISO 868
15 seconds, injection molding	80		ISO 868
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ISO 37
Transverse flow: 100% strain	3.70	MPa	ISO 37

Flow: 100% strain	4.40	MPa	ISO 37
Tensile Strength			ISO 37
Transverse flow: Fracture	12.7	MPa	ISO 37
Flow: Fracture	11.3	MPa	ISO 37
Tensile Elongation			ISO 37
Transverse flow: Fracture	770	%	ISO 37
Flow: Fracture	680	%	ISO 37
Tear Strength			ISO 34-1
Transverse flow	41	kN/m	ISO 34-1
Flow	39	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 22 hr	32	%	ISO 815
70°C, 22 hr	50	%	ISO 815
90°C, 70 hr	68	%	ISO 815

Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow			ISO 188
110°C, 1008 hr	-3.1	%	ISO 188
125°C, 168 hr	-7.1	%	ISO 188
Changes in tensile stress upon fracture in air-Transverse flow			ISO 188
110°C, 1008 hr	1.0	%	ISO 188
125°C, 168 hr	-3.5	%	ISO 188
Change in Shore Hardness in Air			ISO 188
Shao A, 110°C, 1008 hr	1.7		ISO 188
Shao A, 125°C, 168 hr	1.8		ISO 188

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (200°C, 206 sec^-1)	140	Pa·s	ASTM D3835

Additional Information
Good adhesion to glass with primer

Legal statement

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 - 40	°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).

Recommended distributors for this material

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