Sarlink® TPE ME-2355B (PRELIMINARY DATA)

Thermoplastic Elastomer

Teknor Apex Company

Message:

The Sarlink ME-2300 Series is a high performance thermoplastic elastomer series, available in BLK, designed for automotive exterior molded applications. Sarlink ME-2355B is a medium hardness, low density, UV stabilized, high flow grade delivering excellent aesthetics and faster injection molding cycle times.

General Information			
Features	Low Specific Gravity Sunlight Resistant Low density Light stabilization Good UV resistance Workability, good Fast molding cycle Good adhesion High liquidity Good chemical resistance Lubrication Excellent appearance Medium hardness		
Uses	Application in Automobile Field Automotive exterior parts Car exterior decoration Rubber substitution		
RoHS Compliance	RoHS compliance		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.890	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	14	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ISO 868
Shore A, 1 second, injection molding	60		ISO 868
Shore A, 5 seconds, injection molding	55		ISO 868
Shore A, 15 seconds, injection molding	54		ISO 868

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress [1]			ISO 37
Transverse flow: 100% strain	1.25	MPa	ISO 37
Flow: 100% strain	1.50	MPa	ISO 37
Tensile Stress [2]			ISO 37
Transverse flow: Fracture	7.80	MPa	ISO 37
Flow: Fracture	4.70	MPa	ISO 37
Tensile Elongation [3]			ISO 37
Transverse flow: Fracture	890	%	ISO 37
Flow: Fracture	750	%	ISO 37
Tear Strength [4]			ISO 34-1
Transverse flow	23	kN/m	ISO 34-1
Flow	22	kN/m	ISO 34-1
Compression Set [5]			ISO 815
23°C, 22 hr	22	%	ISO 815
70°C, 22 hr	37	%	ISO 815
90°C, 70 hr	62	%	ISO 815

Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow [6]			ISO 188
110°C, 1008 hr	1.8	%	ISO 188
100% strain 110°C, 1008 hr	16	%	ISO 188
125°C, 168 hr	3.1	%	ISO 188
100% strain 125°C, 168 hr	18	%	ISO 188
Changes in tensile stress upon fracture in air-Transverse flow [7]			ISO 188
110°C, 1008 hr	3.1	%	ISO 188
125°C, 168 hr	4.0	%	ISO 188
Change in Shore Hardness in Air [8]			ISO 188
Shao A, 110°C, 1008 hr	3.2		ISO 188
Shao A, 125°C, 168 hr	2.5		ISO 188

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (200°C, 206 sec^-1)	115	Pa·s	ASTM D3835

Legal statement

Injection	Nominal Value	Unit
Rear Temperature	199 - 210	°C
Middle Temperature	204 - 216	°C

Front Temperature	210 - 221	°C
Nozzle Temperature	216 - 227	°C
Processing (Melt) Temp	216 - 227	°C
Mold Temperature	35 - 66	°C
Injection Pressure	1.38 - 6.89	MPa
Injection Rate	Fast	
Back Pressure	0.172 - 0.862	MPa
Screw Speed	50 - 120	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 150°F (65°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

Recommended distributors for this material

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