Sarlink® TPE ME-2275B BLK X (PRELIMINARY DATA)

Thermoplastic Elastomer

Teknor Apex Company

Message:

Sarlink ME-2275B BLK X is a low density TPE designed for automotive exterior applications. This is a UV stabilized grade suitable for injection molding.

General Information	
Features	Low Specific Gravity Sunlight Resistant Low density smoothness Light stabilization Low liquidity Lubrication Fill Medium hardness UV absorption
Uses	Application in Automobile Field Automotive exterior parts Car exterior decoration
Appearance	Black
Forms	Particle
Processing Method	Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Density	0.926	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ISO 868
Shore A, 1 second, injection molding	77		ISO 868
Shore A, 5 seconds, injection molding	74		ISO 868
Shore A, 15 seconds, injection molding	72		ISO 868
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [1]			ISO 37

Transverse flow: 100% strain	2.48	MPa	ISO 37
Flow: 100% strain	3.26	MPa	ISO 37
Tensile Stress [2]			ISO 37
Transverse flow: Fracture	11.4	MPa	ISO 37
Flow: Fracture	7.00	MPa	ISO 37
Tensile Elongation [3]			ISO 37
Transverse flow: Fracture	840	%	ISO 37
Flow: Fracture	650	%	ISO 37
Tear Strength [4]			ISO 34-1
Transverse flow	32	kN/m	ISO 34-1
Flow	38	kN/m	ISO 34-1
Compression Set [5]			ISO 815
23°C, 22 hr	23	%	ISO 815
70°C, 22 hr	42	%	ISO 815
90°C, 70 hr	64	%	ISO 815
125°C, 70 hr	86	%	ISO 815
Aging	**Nominal Value**	**Unit**	**Test Method**
Change in Tensile Strength in Air [6]			ISO 188
Transverse flow: 110°C, 1008 hr	4.4	%	ISO 188
Flow: 110°C, 1008 hr	4.3	%	ISO 188
Transverse flow: 100% strain 110°C, 1008 hr	8.5	%	ISO 188
Flow: 100% strain 110°C, 1008 hr	13	%	ISO 188
Transverse flow: 125°C, 168 hr	3.5	%	ISO 188
Flow: 125°C, 168 hr	1.4	%	ISO 188
Transverse flow: 100% strain 125°C, 168 hr	6.5	%	ISO 188
Flow: 100% strain 125°C, 168 hr	13	%	ISO 188
Change in Tensile Strain at Break in Air [7]			ISO 188
Transverse flow: 110°C, 1008 hr	0.40	%	ISO 188
Flow: 110°C, 1008 hr	-1.9	%	ISO 188
Transverse flow: 125°C, 168 hr	0.80	%	ISO 188
Flow: 125°C, 168 hr	-3.4	%	ISO 188
Change in Shore Hardness in Air			ISO 188
Support a, 110°C, 1008 hr [8]	1.8		ISO 188
Support a, 110°C, 1008 hr [9]	1.5		ISO 188
Support a, 110°C, 1008 hr [10]	2.2		ISO 188
Support a, 125°C, 168 hr [11]	0.30		ISO 188
Support a, 125°C, 168 hr [12]	0.60		ISO 188
Support a, 125°C, 168 hr [13]	0.90		ISO 188
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Apparent Viscosity (200°C, 206 sec^-1)	203	Pa·s	ASTM D3835
Additional Information	**Nominal Value**	**Unit**	**Test Method**

Xenon Weatherometer		SAE J2527
Delta E - 1250 kJ	0.500	SAE J2527
Delta E - 2500 kJ	0.330	SAE J2527

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	35.0 - 65.6	°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).

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	193 - 204	°C
Cylinder Zone 2 Temp.	199 - 210	°C
Cylinder Zone 3 Temp.	204 - 216	°C
Cylinder Zone 5 Temp.	210 - 221	°C
Die Temperature	216 - 227	°C

Extrusion instructions

Screw Speed: 30 to 100 rpm

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
9.	1 sec

10.	15 sec
11.	1 sec
12.	5 sec
13.	15 sec

Recommended distributors for this material

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