Sarlink® TPE FM-2265 (PRELIMINARY DATA)

Thermoplastic Elastomer

Teknor Apex Company

Message:

Sarlink FM-2265 is a general purpose thermoplastic elastomer, available in NAT, BLK, and colors, designed for automotive interior applications, including floor mats. Sarlink FM-2265 is a UV stabilized, medium hardness, high density, wear-resistant, filled grade with excellent processability, good heat stability, and suitable for injection molding.

General Information	
Features	Excellent appearance
	Low friction coefficient
	High specific gravity
	High density
	smoothness
	Good UV resistance
	Workability, good
	Good heat aging resistance
	Good coloring
	Good adhesion
	Good chemical resistance
	Good wear resistance
	Good toughness
	Lubrication
	Fill
	Medium hardness
Uses	Application in Automobile Field
	Car interior parts
	Rubber substitution
RoHS Compliance	RoHS compliance
Appearance	Black
	Available colors
	Natural color
Forms	Particle
Processing Method	Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.08	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.50	g/10 min	ASTM D1238

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ISO 868
Shore A, 1 second, injection molding	62		ISO 868
Shore A, 5 seconds, injection molding	60		ISO 868
Shore A, 15 seconds, injection molding	58		ISO 868
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [1]			ISO 37
Transverse flow: 100% strain	1.35	MPa	ISO 37
Flow: 100% strain	1.97	MPa	ISO 37
Tensile Stress [2]			ISO 37
Transverse flow: Fracture	9.08	MPa	ISO 37
Flow: Fracture	6.43	MPa	ISO 37
Tensile Elongation [3]			ISO 37
Transverse flow: Fracture	890	%	ISO 37
Flow: Fracture	740	%	ISO 37
Tear Strength [4]			ISO 34-1
Transverse flow	24	kN/m	ISO 34-1
Flow	27	kN/m	ISO 34-1
Compression Set [5]			ISO 815
23°C, 22 hr	20	%	ISO 815
70°C, 22 hr	38	%	ISO 815
90°C, 70 hr	64	%	ISO 815
125°C, 70 hr	80	%	ISO 815
Aging	**Nominal Value**	**Unit**	**Test Method**
Change in Tensile Strength in Air [6]			ISO 188
Transverse flow: 110°C, 1008 hr	3.2	%	ISO 188
Flow: 110°C, 1008 hr	14	%	ISO 188
Transverse flow: 100% strain 110°C, 1008 hr	10	%	ISO 188
Flow: 100% strain 110°C, 1008 hr	5.0	%	ISO 188
Transverse flow: 125°C, 168 hr	3.3	%	ISO 188
Flow: 125°C, 168 hr	11	%	ISO 188
Transverse flow: 100% strain 125°C, 168 hr	3.6	%	ISO 188
Flow: 100% strain 125°C, 168 hr	0.90	%	ISO 188
Change in Tensile Strain at Break in Air [7]			ISO 188
Transverse flow: 110°C, 1008 hr	-5.3	%	ISO 188
Flow: 110°C, 1008 hr	0.80	%	ISO 188
Transverse flow: 125°C, 168 hr	1.4	%	ISO 188
Flow: 125°C, 168 hr	6.0	%	ISO 188
Change in Shore Hardness in Air			ISO 188
Shao A, 110°C, 1008 hr [8]	4.0		ISO 188
Shao A, 110°C, 1008 hr [9]	3.6		ISO 188

Shao A, 110°C, 1008 hr [10]	2.1		ISO 188
Shao A, 125°C, 168 hr [11]	2.9		ISO 188
Shao A, 125°C, 168 hr [12]	2.3		ISO 188
Shao A, 125°C, 168 hr [13]	0.40		ISO 188

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (200°C, 206 sec^-1)	229	Pa·s	ASTM D3835

Legal statement

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchaser assumes all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or others. There is no warranty of merchantability and there are no other warranties for the products described. For detailed Product Stewardship information, please contact us. Any product of Teknor Apex, including product names, shall not be used or tested in medical or food contact applications without the prior written acknowledgement of Teknor Apex as to the intended use. Please note that some products may not be available in one or more countries.

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 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.	15 sec
9.	5 sec
10.	1 sec
11.	15 sec
12.	5 sec
13.	1 sec

infringement occurs, please contact us immediately.

Recommended distributors for this material

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