Sarlink® TPE ME-2245N (PRELIMINARY DATA)

Thermoplastic Elastomer

Teknor Apex Company

Message:

The Sarlink ME-2200N is a general purpose thermoplastic elastomer designed for a variety of automotive applications including exterior molded applications. Sarlink ME-2245N is a medium hardness, low density, UV stabilized grade suitable for injection molding.

General Information			
Features	Low Specific Gravity Sunlight Resistant Low density Light stabilization Good UV resistance Workability, good Good coloring Good adhesion Low liquidity Good chemical resistance Lubrication Medium hardness		
Uses	Application in Automobile Field Car interior parts Automotive exterior parts Car exterior decoration Rubber substitution		
RoHS Compliance	RoHS compliance		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.925	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	49		ISO 868
Shore A, 5 seconds, injection molding	46		ISO 868
Shore A, 15 seconds, injection molding	44		ISO 868
Elastomers	**Nominal Value**	**Unit**	**Test Method**

Tensile Stress [1]			ISO 37
Transverse flow: 100% strain	1.02	MPa	ISO 37
Flow: 100% strain	1.58	MPa	ISO 37
Tensile Stress [2]			ISO 37
Transverse flow: Fracture	6.80	MPa	ISO 37
Flow: Fracture	3.30	MPa	ISO 37
Tensile Elongation [3]			ISO 37
Transverse flow: Fracture	840	%	ISO 37
Flow: Fracture	540	%	ISO 37
Tear Strength [4]			ISO 34-1
Transverse flow	18	kN/m	ISO 34-1
Flow	22	kN/m	ISO 34-1
Compression Set [5]			ISO 815
23°C, 22 hr	14	%	ISO 815
70°C, 22 hr	34	%	ISO 815
90°C, 70 hr	57	%	ISO 815
125°C, 70 hr	75	%	ISO 815
Aging	**Nominal Value**	**Unit**	**Test Method**
Change in Tensile Strength in Air [6]			ISO 188
Transverse flow: 110°C, 1008 hr	34	%	ISO 188
Flow: 110°C, 1008 hr	67	%	ISO 188
Transverse flow: 100% strain 110°C, 1008 hr	5.9	%	ISO 188
Flow: 100% strain 110°C, 1008 hr	5.7	%	ISO 188
Transverse flow: 125°C, 168 hr	31	%	ISO 188
Flow: 125°C, 168 hr	52	%	ISO 188
Transverse flow: 100% strain 125°C, 168 hr	2.9	%	ISO 188
Flow: 100% strain 125°C, 168 hr	0.0	%	ISO 188
Change in Tensile Strain at Break in Air [7]			ISO 188
Transverse flow: 110°C, 1008 hr	7.0	%	ISO 188
Flow: 110°C, 1008 hr	33	%	ISO 188
Transverse flow: 125°C, 168 hr	7.7	%	ISO 188
Flow: 125°C, 168 hr	40	%	ISO 188
Change in Shore Hardness in Air			
Shao A, 110°C, 1008 hr [8]	1.6		ISO 188
Shao A, 110°C, 1008 hr [9]	1.1		ISO 188
Shao A, 110°C, 1008 hr [10]	1.5		ISO 188
Shao A, 125°C, 168 hr [11]	0.60		ISO 188
Shao A, 125°C, 168 hr [12]	0.90		ISO 188
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Apparent Viscosity (200°C, 206 sec^-1)	234	Pa·s	ASTM D3835
Legal statement			

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

Recommended distributors for this material

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