+135-3858-6433 (GuangDong)
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TEKNOR APEX

Sarlink® TPE ML-1262B

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

Sarlink ML-1262B is a general purpose thermoplastic elastomer used in automotive applications, including exterior. Sarlink ML-1262B is a medium hardness, high density grade exhibiting superior compression set and chemical resistance. This grade can be processed by injection molding.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Filled • Good Mold Release • Good Moldability • Good Processability • Good Tear Strength	• Good Tensile Strength • Halogen Free • High Density • High Specific Gravity • Low Fogging	• Lubricated • Medium Flow • Medium Hardness • Medium Viscosity • Slip
Uses	• Automotive Applications	• Automotive Interior Parts	
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.17	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	9.0	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2]			ISO 37
Across Flow : 100% Strain	232	psi	
Flow : 100% Strain	421	psi	
Tensile Stress [2]			ISO 37
Across Flow : Break	1000	psi	
Flow : Break	682	psi	
Tensile Elongation [2]			ISO 37
Across Flow : Break	790	%	
Flow : Break	520	%	
Tear Strength [3]			ISO 34-1
Across Flow	136	lbf/in	
Flow	150	lbf/in	
Compression Set [4]			ISO 815
73°F, 22 hr	26	%	
158°F, 22 hr	41	%	
194°F, 70 hr	65	%	
257°F, 70 hr	82	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness			ISO 868
Shore A, 1 sec, Injection Molded	65		
Shore A, 5 sec, Injection Molded	63		
Shore A, 15 sec, Injection Molded	62		

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Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air [5]			ISO 188
Across Flow : 230°F, 1008 hr	33	%	
Flow : 230°F, 1008 hr	40	%	
Across Flow : 100% Strain 230°F, 1008 hr	43	%	
Flow : 100% Strain 230°F, 1008 hr	32	%	
Across Flow : 257°F, 168 hr	15	%	
Flow : 257°F, 168 hr	13	%	
Flow : 100% Strain 257°F, 168 hr	22	%	
Across Flow : 100% Strain 334°F, 125 hr	16	%	
Change in Tensile Strain at Break in Air [5]			ISO 188
Across Flow : 230°F, 1008 hr	-8.1	%	
Flow : 230°F, 1008 hr	10	%	
Across Flow : 257°F, 168 hr	-2.2	%	
Flow : 257°F, 168 hr	6.7	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 230°F, 1008 hr [6]	12		
Shore A, 230°F, 1008 hr [7]	11		
Shore A, 230°F, 1008 hr [8]	8.9		
Shore A, 257°F, 168 hr [6]	4.6		
Shore A, 257°F, 168 hr [7]	4.0		
Shore A, 257°F, 168 hr [8]	2.2		

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 207 sec^-1)	255	Pa·s	ASTM D3835

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	390 to 410	°F
Middle Temperature	400 to 420	°F
Front Temperature	410 to 430	°F
Nozzle Temperature	420 to 440	°F
Processing (Melt) Temp	420 to 440	°F
Mold Temperature	60 to 90	°F
Injection Pressure	200 to 1000	psi
Injection Rate	Fast	
Back Pressure	25.0 to 125	psi
Screw Speed	50 to 120	rpm
Cushion	0.150 to 1.00	in

Injection Notes

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150°F (65°C).

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] Type 1, 20 in/min

[3] Method Ba, Angle (Unnicked), 20 in/min

[4] Type A

[5] Type 1

[6] 15 sec delay

[7] 5 sec delay

[8] 1 sec delay