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TEKNOR APEX

Sarlink® TPE ME-2245N (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

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			
Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant • Good Adhesion • Good Colorability • Good Processability	• Light Stabilized • Low Density • Low Flow • Low Specific Gravity	• Lubricated • Medium Hardness • Sunlight Resistant • UV Resistant
Uses	• Automotive Applications • Automotive Exterior Parts	• Automotive Exterior Trim • Automotive Interior Parts	• Rubber Replacement
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

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
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2]			ISO 37
Across Flow : 100% Strain	148	psi	
Flow : 100% Strain	229	psi	
Tensile Stress [2]			ISO 37
Across Flow : Break	986	psi	
Flow : Break	479	psi	
Tensile Elongation [2]			ISO 37
Across Flow : Break	840	%	
Flow : Break	540	%	
Tear Strength [3]			ISO 34-1
Across Flow	100	lbf/in	
Flow	123	lbf/in	
Compression Set [4]			ISO 815
73°F, 22 hr	14	%	
158°F, 22 hr	34	%	
194°F, 70 hr	57	%	
257°F, 70 hr	75	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness			ISO 868
Shore A, 1 sec, Injection Molded	49		
Shore A, 5 sec, Injection Molded	46		
Shore A, 15 sec, Injection Molded	44		

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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	34	%	
Flow : 230°F, 1008 hr	67	%	
Across Flow : 100% Strain 230°F, 1008 hr	5.9	%	
Flow : 100% Strain 230°F, 1008 hr	5.7	%	
Across Flow : 257°F, 168 hr	31	%	
Flow : 257°F, 168 hr	52	%	
Across Flow : 100% Strain 257°F, 168 hr	2.9	%	
Flow : 100% Strain 257°F, 168 hr	0.0	%	
Change in Tensile Strain at Break in Air [5]			ISO 188
Across Flow : 230°F, 1008 hr	7.0	%	
Flow : 230°F, 1008 hr	33	%	
Across Flow : 257°F, 168 hr	7.7	%	
Flow : 257°F, 168 hr	40	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 230°F, 1008 hr [6]	1.6		
Shore A, 230°F, 1008 hr [7]	1.1		
Shore A, 230°F, 1008 hr [8]	1.5		
Shore A, 257°F, 168 hr [6]	0.60		
Shore A, 257°F, 168 hr [7]	0.60		
Shore A, 257°F, 168 hr [8]	0.90		

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec^-1)	234	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	95 to 150	°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