



Sarlink® TPE ME-2385N

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

ME-2385N is a high performance injection molding thermoplastic elastomer designed for automotive applications, including exterior parts exhibiting sunlight resistance and UV absorbing characteristics.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Filled • High Gloss • Light Stabilized • Low Density	• Low Specific Gravity • Lubricated • Medium Flow • Slip	• Sunlight Resistant • UV Absorbing
Uses	• Automotive Applications	• Automotive Exterior Parts	• Automotive Exterior Trim
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ²			ISO 37
Across Flow : 100% Strain	525	psi	
Flow : 100% Strain	637	psi	
Tensile Stress ²			ISO 37
Across Flow : Break	2000	psi	
Flow : Break	1320	psi	
Tensile Elongation ²			ISO 37
Across Flow : Break	830	%	
Flow : Break	620	%	
Tear Strength ³			ISO 34-1
Across Flow	240	lbf/in	
Flow	260	lbf/in	
Compression Set ⁴			ISO 815
73°F, 22 hr	20	%	
158°F, 22 hr	32	%	
194°F, 70 hr	37	%	
257°F, 70 hr	49	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, 1 sec, Injection Molded	86		
Shore A, 5 sec, Injection Molded	84		
Shore A, 15 sec, Injection Molded	81		

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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	-4.5	%	
Flow : 230°F, 1008 hr	-14	%	
Across Flow : 100% Strain 230°F, 1008 hr	7.9	%	
Flow : 100% Strain 230°F, 1008 hr	12	%	
Across Flow : 257°F, 168 hr	-2.9	%	
Flow : 257°F, 168 hr	-18	%	
Across Flow : 100% Strain 257°F, 168 hr	6.9	%	
Flow : 100% Strain 257°F, 168 hr	13	%	
Change in Tensile Strain at Break in Air ⁵			ISO 188
Across Flow : 230°F, 1008 hr	-3.6	%	
Flow : 230°F, 1008 hr	-16	%	
Across Flow : 257°F, 168 hr	-4.7	%	
Flow : 257°F, 168 hr	-20	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 230°F, 1008 hr ⁶	3.6		
Shore A, 230°F, 1008 hr	3.8		
Shore A, 230°F, 1008 hr ⁷	2.7		
Shore A, 257°F, 168 hr ⁸	3.4		
Shore A, 257°F, 168 hr ⁶	3.1		
Shore A, 257°F, 168 hr ⁷	2.5		
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec ⁻¹)	192	Pa·s	ASTM D3835
Additional Information			
FOGGING, 3 HRS @ 100C, 21C PLATE = 98%			

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).

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Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	380 to 400	°F
Cylinder Zone 2 Temp.	390 to 410	°F
Cylinder Zone 3 Temp.	400 to 420	°F
Cylinder Zone 5 Temp.	410 to 430	°F
Die Temperature	420 to 440	°F

Extrusion Notes

Screw Speed: 30 to 100 rpm

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 5 sec

⁷ 1 sec

⁸ 15 sec