TEKNOR APEX

Sarlink® TPE ME-2555B (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Thursday, June 29, 2017

General Information

Product Description

The Sarlink ME-2500 Series are super high flow, high density, high performance thermoplastic elastomers designed for demanding exterior automotive molding applications, including window encapsulation. Sarlink ME-2555B is a high density, medium hardness injection molding grade with excellent UV resistance and adhesion to glass with primer.

General

Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant • Filled • Good Adhesion • Good Flexibility	• Good Processability • Good Surface Finish • Good Toughness • High Density	• High Flow • High Specific Gravity • Medium Hardness • UV Resistant
Uses	• Automotive Applications • Automotive Exterior Parts	• Automotive Window Encapsulation • Rubber Replacement	
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10		ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ISO 37
Across Flow : 100% Strain, 73°F	203	psi	
Flow : 100% Strain, 73°F	247	psi	
Tensile Stress			ISO 37
Across Flow : Break	943	psi	
Flow : Break	856	psi	
Tensile Elongation			ISO 37
Across Flow : Break	850	%	
Flow : Break	780	%	
Tear Strength			ISO 34-1
Across Flow	130	lbf/in	
Flow	130	lbf/in	
Compression Set			ISO 815
73°F, 22 hr	19	%	
158°F, 22 hr	39	%	
194°F, 70 hr	71	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ISO 868
Shore A, 1 sec	60		
Shore A, 5 sec	55		

Revision Date: 6/1/2016

Sarlink® TPE ME-2555B (PRELIMINARY DATA)
Teknor Apex Company - Thermoplastic Elastomer

Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow			ISO 188
230°F, 1008 hr	6.4	%	
257°F, 168 hr	9.2	%	
Change in Tensile Strain at Break in Air - Across Flow			ISO 188
230°F, 1008 hr	2.2	%	
257°F, 168 hr	11	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 230°F, 1008 hr	0.50		
Shore A, 257°F, 168 hr	4.0		

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec^-1)	127	Pa·s	ASTM D3835

Additional Information

Adhesion to glass with primer

Legal Statement

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	338 to 374	°F
Middle Temperature	347 to 383	°F
Front Temperature	356 to 401	°F
Nozzle Temperature	356 to 401	°F
Processing (Melt) Temp	356 to 401	°F
Mold Temperature	59 to 104	°F
Injection Pressure	200 to 1000	psi
Injection Rate	Moderate-Fast	
Back Pressure	25.0 to 125	psi
Screw Speed	50 to 100	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 176°F (80°C).

Notes

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

Teknor Apex Company
Corporate Headquarters

In U.S. for Vinyls, TPEs, Colorants, Engineered Thermoplastics (Chem Polymer)
505 Central Avenue
Pawtucket, Rhode Island 02861 U.S.

Phone: 401-725-8000
Fax: 401-725-8095
Toll Free (U.S. only) 800-556-3864

info@teknorapex.com

Teknor Apex U.K. Ltd.

Tat Bank Road
Oldbury, West Midlands B69 4NH England

Phone: (44) 121-665-2100
Fax: (44) 121-544-5530

etpsales@teknorapex.co.uk

Revision Date: 6/1/2016