

Sarlink® TPE EE-1185B (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Friday, June 30, 2017

General Information

Product Description

The Sarlink EE-1100 Series is a general purpose thermoplastic elastomer series, available in BLK, designed for demanding automotive extrusion applications including backbone for window encapsulation. Sarlink EE-1185B is a higher hardness, high density grade with low CLTE, good chemical resistance and elastic performance.

General

Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Balanced Stiffness/Toughness • Chemical Resistant • Good Adhesion	• Good Processability • High Density • High Hardness	• High Specific Gravity • Resilient
Uses	• Automotive Applications • Automotive Exterior Parts	• Automotive Window Encapsulation • Profiles	• Rubber Replacement
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Coextrusion	• Extrusion	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
Across Flow : 100% Strain	466	psi	
Flow : 100% Strain	856	psi	
Tensile Strength			ISO 37
Across Flow : Break	1450	psi	
Flow : Break	1150	psi	
Tensile Elongation			ISO 37
Across Flow : Break	720	%	
Flow : Break	500	%	
Tear Strength ²	257	lbf/in	ISO 34
Compression Set ³ (158°F, 22 hr)	43	%	ISO 815
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec, Injection Molded)	86		ISO 868
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow			ISO 188
257°F, 168 hr	-1.7	%	
100% Strain 257°F, 168 hr	13	%	
Change in Tensile Strain at Break in Air - Across Flow			ISO 188
257°F, 168 hr	2.3	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 257°F, 168 hr	0.30		
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec ^A -1)	244	Pa·s	ISO 11443

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Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	340 to 380	°F
Cylinder Zone 2 Temp.	350 to 390	°F
Cylinder Zone 3 Temp.	360 to 400	°F
Cylinder Zone 4 Temp.	360 to 400	°F
Cylinder Zone 5 Temp.	370 to 400	°F
Die Temperature	370 to 400	°F

Extrusion Notes

Screw Speed: 30 to 100 rpm; predrying is suggested to enhance bonding for coextrusion.

Notes

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

² 20 in/min

³ Type A

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