Sarlink® TPE ME-2640DB BLK (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Thursday, June 29, 2017

General Information

Product Description

The Sarlink ME-2600 Series is a super high flow high performance thermoplastic elastomer series, available in BLK, designed for automotive exterior molded applications. Sarlink ME-2640DB BLK is a high hardness, low density, UV stabilized, super high flow injection molding grade delivering excellent aesthetics.

General			
Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Processability • Good Surface Finish • High Flow	• High Hardness • Low Density • Low Specific Gravity	• Low Temperature Impact Resistance • UV Resistant
Uses	• Automotive Applications	• Automotive Exterior Parts	
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.941	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	19	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ISO 37
Across Flow : 100% Strain	1510	psi	
Flow : 100% Strain	1860	psi	
Tensile Stress			ISO 37
Across Flow : Break	3310	psi	
Flow : Break	2800	psi	
Tensile Elongation			ISO 37
Across Flow : Break	780	%	
Flow : Break	600	%	
Tear Strength			ISO 34-1
Across Flow	540	lbf/in	
Flow	470	lbf/in	
Compression Set			ISO 815
73°F, 22 hr	44	%	
158°F, 22 hr	66	%	
194°F, 70 hr	77	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness			ISO 868
Shore D	53		
Shore D, 5 sec	48		
Aging	**Nominal Value**	**Unit**	**Test Method**
Change in Tensile Strength in Air			ISO 188
230°F, 1008 hr	-5.3	%	
257°F, 168 hr	-7.5	%	

Revision Date: 8/18/2016

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Aging	Nominal Value	Unit	Test Method
Change in Tensile Strain at Break in Air - Across Flow			ISO 188
230°F, 1008 hr	-7.7	%	
257°F, 168 hr	-14	%	
Change in Shore Hardness in Air			ISO 188
Shore D, 230°F, 1008 hr	0.70		
Shore D, 257°F, 168 hr	1.3		

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec^-1)	215	Pa·s	ASTM D3835

Legal Statement

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	338 to 356	°F
Middle Temperature	356 to 392	°F
Front Temperature	392 to 428	°F
Nozzle Temperature	410 to 446	°F
Processing (Melt) Temp	392 to 446	°F
Mold Temperature	50 to 140	°F
Injection Pressure	870 to 1740	psi
Injection Rate	Fast	
Holding Pressure	580 to 870	psi
Back Pressure	72.5 to 290	psi
Screw Speed	50 to 120	rpm

Injection Notes

Drying is not necessary. However, if moisture is a problem, dry the pellets 2 to 4 hours at 65 degrees Celsius.

Time Settings:
Injection time: 0.5-2 seconds
Holding time: 1-10 seconds
Cooling time: As short as possible. The parts should be removable without deformation or piercing of the ejector(s)

Notes

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

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Revision Date: 8/18/2016

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