

Sarlink® TPE AB-2233D

Thermoplastic Elastomer

Teknor Apex Company

Message:

Sarlink®TPE AB-2233D is a thermoplastic elastomer (TPE) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing methods are: blow molding, extrusion or injection molding.
Typical application areas include:
Automotive Industry
engineering/industrial accessories

General Information			
Uses	Blow molding applications		
	Washer		
	Weather-resistant sealing strip		
	Application in Automobile Field		
	Car interior parts		
	Automotive exterior parts		
	Car exterior decoration		
	General		
Appearance	Translucent		
Forms	Particle		
Processing Method	Blow molding		
	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.898	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	0.90	%	ASTM D955
Flow: 80°C, 30 minutes	0.90	%	ASTM D955
Flow: 93°C, 30 minutes	1.2	%	ASTM D955
Transverse flow	1.0	%	ASTM D955
Transverse flow: 80°C	0.90	%	ASTM D955
Transverse flow: 93°C	1.3	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 10 sec)	33		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	138	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method

Tensile Strength (Yield)	8.41	MPa	ASTM D412
Tensile Elongation (Break)	570	%	ASTM D412
Tear Strength ¹	61.3	kN/m	ASTM D624
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air			ASTM D573
90°C, 1000 hr	-6.0	%	ASTM D573
Transverse flow: 100°C, 1008 hr	4.6	%	ASTM D573
Flow: 100°C, 1008 hr	8.0	%	ASTM D573
107°C, 400 hr	-4.0	%	ASTM D573
Change in Ultimate Elongation in Air			ASTM D573
90°C, 1000 hr	-23	%	ASTM D573
Transverse flow: 100°C, 1008 hr	-18	%	ASTM D573
Flow: 100°C, 1008 hr	-7.6	%	ASTM D573
107°C, 400 hr	-25	%	ASTM D573
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-60.0	°C	ASTM D746
Thermal Conductivity	0.16	W/m/K	ASTM C177
Flammability	Nominal Value	Unit	Test Method
Burning Rate	25	mm/min	ISO 3795
Fill Analysis	Nominal Value	Unit	Test Method
Melt Density	0.785	g/cm ³	
Melt Specific Heat	2590	J/kg/°C	ASTM C351
Melt Thermal Conductivity	0.16	W/m/K	ASTM C177
No Flow Temperature	125	°C	
Additional Information			
雾化,SAE-J1756,6小时,95°C:72撕裂强度ASTM D624试验中所列的数值,依照ASTM D1004进行试验.重量变化,空气老化,1000小时,90°C:-0.7 %重量变化,空气老化,400 小时,107°C:-0.5 %熔体导热性,ASTM C177,205°C:0.159 W/m/K模具收缩,线性变换,ASTM D955:0.01英寸/英寸模具收缩,线性变换,ASTM D955,0.5小时,80°C:0.009英寸/英寸模具收缩,线性变换,ASTM D955,0.5小时,93°C:0.013英寸/英寸可燃性燃烧速率,FMVSS 302,最大100,1.00英寸/分钟:合格			
Injection	Nominal Value	Unit	
Rear Temperature	199 - 210	°C	
Middle Temperature	204 - 216	°C	
Front Temperature	210 - 221	°C	
Nozzle Temperature	216 - 227	°C	
Processing (Melt) Temp	216 - 227	°C	
Mold Temperature	35.0 - 65.6	°C	
Injection Pressure	1.38 - 6.89	MPa	
Injection Rate	Fast		
Back Pressure	0.172 - 0.862	MPa	
Screw Speed	50 - 120	rpm	
Cushion	3.81 - 25.4	mm	
Injection instructions			
无需干燥.但如果湿度过大,则将粒料在150°F (65°C)的温度下干燥2-4小时.			

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	193 - 204	°C
Cylinder Zone 2 Temp.	199 - 210	°C
Cylinder Zone 3 Temp.	204 - 216	°C
Cylinder Zone 5 Temp.	210 - 221	°C
Die Temperature	216 - 227	°C
Extrusion instructions		
螺杆转速30 - 100 rpm		
NOTE		
1.	C mould	

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