

Medalist® MD-17135 XRD1 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Friday, June 30, 2017

General Information

Product Description

The Medalist MD-17135 XRD1 is a high performance thermoplastic elastomer designed for medical and healthcare applications requiring high elasticity and excellent moldability. Medalist MD-17135 XRD1 is a low hardness, low density grade, available in NAT and colors, which can be sterilized and exhibits excellent adhesion to polypropylene. This grade is suitable for injection molding processing.

General			
Material Status	Preliminary Data		
Availability	Africa & Middle EastAsia Pacific	EuropeLatin America	North America
Features	 Autoclave Sterilizable Chemical Resistant Ethylene Oxide Sterilizable Good Adhesion Good Moldability Good Sterilizability 	Good ToughnessHalogen FreeLow DensityLow FlowLow HardnessLow Specific Gravity	LubricatedRadiation SterilizableResilientSlipWithout Fillers
Uses	BushingsClosuresDisposable Hospital GoodsFlexible Grips	 Grommets Knobs Plugs Medical/Healthcare Applications Rubber Replacement Pharmaceuticals 	
Agency Ratings	 ISO 10993 Part 5 	• ISO 13485	
RoHS Compliance	RoHS Compliant		
Appearance	Colors Available	Natural Color	• Opaque
Forms	• Pellets		
Processing Method	Injection Molding		

ASTM & ISO Properties 1				
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	0.885		ASTM D792	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	7.0	g/10 min	ASTM D1238	
Elastomers	Nominal Value	Unit	Test Method	
Tensile Stress ² (50% Strain)	165	psi	ASTM D412	
Tensile Stress ² (100% Strain)	200	psi	ASTM D412	
Tensile Stress ² (300% Strain)	310	psi	ASTM D412	
Tensile Strength ² (Break)	590	psi	ASTM D412	
Tensile Elongation ² (Break)	600	%	ASTM D412	
Tear Strength ²	124	lbf/in	ASTM D624	
Compression Set ³			ASTM D395	
73°F, 22 hr	16	%		
158°F, 22 hr	28	%		
Hardness	Nominal Value	Unit	Test Method	
Durometer Hardness		地档	ASTM D2240	
Shore A, 1 sec	42	科沙區斯	58958519 58958519	
Shore A, 5 sec	Nominal Value Nominal Value APEX TEKNOR APEX teknorapex.shshsj.co	清洁尔爱》	21-3	

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Legal Statement

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Processing Information				
Injection	Nominal Value	Unit		
Rear Temperature	320 to 350	°F		
Middle Temperature	360 to 400	°F		
Front Temperature	380 to 420	°F		
Nozzle Temperature	360 to 440	°F		
Processing (Melt) Temp	360 to 440	°F		
Mold Temperature	80 to 120	°F		
Injection Rate	Moderate-Fast			
Back Pressure	50.0 to 150	psi		
Screw Speed	50 to 100	rpm		
Cushion	0.150 to 0.500	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).

Notes

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

² Die C, 20 in/min

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³ Type 1