TEKNOR APEX

Medalist® MD-12140H (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Friday, June 30, 2017

General Information

Product Description

Medalist MD-12338 XRD1 is a high performance thermoplastic elastomer designed for use in medical and healthcare applications requiring good flow and elastic properties. Medalist MD-MD-12338 XRD1 is a low density, low hardness, resilient grade, available in NAT and colors, which can be sterilized and exhibits excellent adhesion to polypropylene.

General			
Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Autoclave Sterilizable • Chemical Resistant • Ethylene Oxide Sterilizable • Good Colorability • Good Flexibility • Good Moldability	• Good Sterilizability • Good Toughness • Halogen Free • High Flow • Low Density • Low Hardness	• Low Specific Gravity • Radiation (Gamma) Resistant • Resilient • Slip • Without Fillers
Uses	• Bladders • Bushings • Connectors • Disposable Hospital Goods • Flexible Grips	• Grommets • Handles • Knobs • Medical/Healthcare Applications • Pharmaceuticals	• Plugs • Rubber Replacement • Seals
Agency Ratings	• ISO 10993 Part 5	• ISO 13485	
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available	• Natural Color	• Translucent
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) (190°C/2.16 kg)	12	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2] (50% Strain)	135	psi	ASTM D412
Tensile Stress [2] (100% Strain)	175	psi	ASTM D412
Tensile Stress [2] (300% Strain)	290	psi	ASTM D412
Tensile Strength [2] (Break)	690	psi	ASTM D412
Tensile Elongation [2] (Break)	710	%	ASTM D412
Tear Strength [2]	108	lbf/in	ASTM D624
Compression Set [3]			ASTM D395
73°F, 22 hr	19	%	
158°F, 22 hr	78	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	42		
Shore A, 5 sec, Injection Molded	40		

上海松翰塑化科技有限公司
TEKNOR APEX特诺尔爱佩斯一级分销商
teknorapex.shshsj.com 联系电话：021-58958548

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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	25.0 to 100	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

[3] Type 1

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

上海松翰塑化科技有限公司
TEKNOR APEX 特诺尔爱佩斯 一级分销商
teknorapex.shshsj.com 联系电话：021-58958519

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