

Medalist® MD-115A

Thermoplastic Elastomer

Teknor Apex Company

Message:

Medalist™MD-115A 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 method is extrusion or injection molding.

Typical application areas include:

medical/health care

safety equipment

General Information	
Uses	Safety equipment
	Drug
	Medical/nursing supplies
Agency Ratings	ISO 10993 Part 5
Appearance	Translucent
Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.878	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	1.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	37		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	0.862	MPa	ASTM D412
200% strain	1.52	MPa	ASTM D412
300% strain	2.21	MPa	ASTM D412
Tensile Strength (Break)	7.45	MPa	ASTM D412
Tensile Elongation (Break)	650	%	ASTM D412
Tear Strength	21.0	kN/m	ASTM D624
Compression Set (23°C, 22 hr)	13	%	ASTM D395
Injection	Nominal Value	Unit	
Rear Temperature	127 - 149	°C	
Middle Temperature	138 - 160	°C	
Front Temperature	149 - 171	°C	
Nozzle Temperature	171 - 193	°C	
Processing (Melt) Temp	171 - 193	°C	

Mold Temperature	21.1 - 37.8	°C
Injection Pressure	1.38 - 5.52	MPa
Back Pressure	0.172 - 0.689	MPa
Screw Speed	50 - 100	rpm
Cushion	3.81 - 25.4	mm

Injection instructions

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150°F (65°C).

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	138 - 149	°C
Cylinder Zone 2 Temp.	149 - 160	°C
Cylinder Zone 3 Temp.	160 - 182	°C
Cylinder Zone 5 Temp.	171 - 193	°C
Die Temperature	182 - 204	°C

Extrusion instructions

Screw Speed: 30 to 100 rpm

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Recommended distributors for this material

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