Medalist® MD-225

Thermoplastic Vulcanizate

Teknor Apex Company

Message:

This compound is designed for medical and healthcare applications requiring oil resistance.

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

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.938	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	18	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	2.3	%	ASTM D955
Transverse flow	2.1	%	ASTM D955

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	64		ASTM D2240

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	3.03	MPa	ASTM D412
200% strain	4.07	MPa	ASTM D412
Tensile Strength (Break)	4.83	MPa	ASTM D412
Tensile Elongation (Break)	280	%	ASTM D412
Tear Strength	17.5	kN/m	ASTM D624
Compression Set (23°C, 22 hr)	24	%	ASTM D395

Injection	Nominal Value	Unit
Rear Temperature	138 - 160	°C
Middle Temperature	160 - 182	°C
Front Temperature	171 - 193	°C
Nozzle Temperature	193 - 216	°C
Processing (Melt) Temp	193 - 216	°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℃).

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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WECHAT