# Medalist® MD-12170 XRD (PRELIMINARY

## DATA)

Thermoplastic Elastomer

#### **Teknor Apex Company**

#### Message:

Medalist MD-12170 XRD is designed for medical and healthcare applications requiring high elasticity and tensile strength. Medalist MD-12170 XRD is a translucent grade, can be sterilized and is suitable for injection molding and extrusion. This grade also exhibits excellent adhesion to polypropylene. Every ingredient used to formulate this product is either "generally recognized as safe" (GRAS), prior sanctioned, subject to an effective Food Contact Notification (FCN), subject to a Threshold of Regulation (TOR) or identified in one or more sections of Title 21 of the code of Federal Regulations published by the US FDA.

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	anslucent					
Processing Method Ex	rticle					
	trusion					
Inj	ection molding					
Physical Non	ninal Value	Unit	Test Method			
Specific Gravity 0.89	90	g/cm³	ASTM D792			
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg) 2.5		g/10 min	ASTM D1238			
Hardness Non	ninal Value	Unit	Test Method			
Durometer Hardness (Shore A, 5 sec) 70			ISO 868			
Elastomers Non	ninal Value	Unit	Test Method			
Tensile Stress - Across Flow (100% Strain)     2.12	2	MPa	ISO 37			
Tensile Stress - Across Flow (Break) 12.9	)	MPa	ISO 37			
Tensile Elongation - Across Flow (Break) 850		%	ISO 37			
Tear Strength <sup>1</sup>			ISO 34-1			
Transverse flow 27		kN/m	ISO 34-1			
Flow 36		kN/m	ISO 34-1			

Compression Set <sup>2</sup> (70°C, 22 hr)	33	%	ISO 815	
Injection	Nominal Value	Unit		
Rear Temperature	160 - 177	°C		
Middle Temperature	182 - 204	°C		
Front Temperature	193 - 216	°C		
Nozzle Temperature	182 - 227	°C		
Processing (Melt) Temp	182 - 227	°C		
Mold Temperature	26.7 - 48.9	°C		
Injection Rate	Moderate-Fast			
Back Pressure	0.172 - 0.689	MPa		
Screw Speed	50 - 100	rpm		
Cushion	3.81 - 12.7	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).				
NOTE				
	Method B, right-angle specimen			
1.	(without cut)			
2.	Туре а			

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