



# Medalist® MD-37063 NAT

Teknor Apex Company - Thermoplastic Elastomer

## General Information

### Product Description

Medalist MD-37063 is a specialty thermoplastic elastomer designed for overmolding applications in the medical and healthcare industry. Medalist MD-37063 is a translucent, medium hardness, lubricated grade that can be sterilized and exhibits excellent adhesion to PC, ABS, and PC/ABS.

### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Bondability • Good Sterilizability	• Medium Density • Medium Hardness	
Uses	• Medical/Healthcare Applications	• Pharmaceuticals	• Safety Equipment
RoHS Compliance	• RoHS Compliant		
Appearance	• Translucent		
Forms	• Pellets		
Processing Method	• Injection Molding		

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.960		ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	2.0	g/10 min	
210°C/5.0 kg	30	g/10 min	
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (300% Strain)	650	psi	ASTM D412
Tensile Strength (Break)	1300	psi	ASTM D412
Tensile Elongation (Break)	600	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A	65		
Shore A, 5 sec	63		
Additional Information	Nominal Value	Unit	
Adhesion to ABS			
Adhesion to PC			
Adhesion to PC/ABS			

## Processing Information

Injection	Nominal Value	Unit
Rear Temperature	260 to 300	°F
Middle Temperature	280 to 320	°F

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Injection	Nominal Value	Unit
Front Temperature	300 to 340	°F
Nozzle Temperature	340 to 380	°F
Processing (Melt) Temp	340 to 380	°F
Mold Temperature	70 to 100	°F
Injection Pressure	200 to 800	psi
Back Pressure	25.0 to 100	psi
Screw Speed	50 to 100	rpm
Cushion	0.150 to 1.00	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

<sup>1</sup> Typical properties: these are not to be construed as specifications.