

## Multibase Multi-Flex<sup>®</sup> A 9002 MR TPE Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE

### Material Notes:

Features: Chemical Resistance, Good Colorability, Good Elasticity, High Electrically Insulating Flame Retardant Flexibility, Good Heat Stabilized Ozone Resistant Processability, Good UV Resistance, Good Scratch Resistant Forms: Pellets Processing Method: Injection Molding  
Information provided by Multibase

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Multibase-Multi-Flex-A-9002-MR-TPE-Thermoplastic-Elastomer.php](http://www.lookpolymers.com/polymer_Multibase-Multi-Flex-A-9002-MR-TPE-Thermoplastic-Elastomer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.920 g/cc	0.920 g/cc	ASTM 792
Linear Mold Shrinkage	0.015 cm/cm	0.015 in/in	ASTM D955
Melt Flow	4.0 g/10 min @Load 2.16 kg, Temperature 230 °C	4.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	90	90	10 seconds; ASTM D2240
Tensile Strength, Ultimate	10.3 MPa	1500 psi	ASTM D638
Elongation at Break	680 %	680 %	ASTM D638
Flexural Modulus	1.14 GPa	165 ksi	1% Secant; ASTM D790
Tear Strength	70.1 kN/m	400 pli	ASTM D624

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-50.0 °C	-58.0 °F	ASTM D746
Flame Spread	19 mm/min	0.75 in/min	FM VSS-302
	19 mm/min	0.75 in/min	VSS 302

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	210 °C	410 °F	
Front Barrel Temperature	227 °C	440 °F	
Nozzle Temperature	235 °C	455 °F	
Mold Temperature	51.7 °C	125 °F	

Processing Properties	Metric °C	English	Comments
Dry Time	2 - 4 hour	2 - 4 hour	
Injection Pressure	3.45 - 4.83 MPa	500 - 700 psi	
Back Pressure	0.345 MPa	50.0 psi	
Screw Speed	40 rpm	40 rpm	

Descriptive Properties	Value	Comments
Clamp Tonnage	1.5-2.5 tons/in <sup>2</sup>	
Fogging	Min. 90	SAE-J275
Injection Rate	Fast	
Suggested Max Regrind	0.5	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China