



**Material Safety Data Sheet**

**Manufacturer**

Mortar Net Solutions®  
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Chemical Name & Synonyms Polyolefin Elastomer Blend, synthetic rubber/polypropylene (SR) blend

DATE: Thursday, February 21, 2013

General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• North America	• South America
Features	• Good Weather Resistance	• Medium Hardness	• Medium Heat Resistance
Forms	• Pellets		
Processing Method	• Blow Molding	• Extrusion	• Injection Molding

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

Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm <sup>3</sup>	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
Across Flow: 100% Strain	363	psi	
Flow: 100% Strain	551	psi	
Tensile Stress			ISO 37
Across Flow: Break	914	psi	
Flow: Break	783	psi	
Tensile Elongation			ISO 37
Across Flow: Break	640	%	
Flow: Break	270	%	
Tear Strength - Across Flow <sup>2</sup>	180	lbf/in	ISO 34-1
Compression Set			ISO 815
73°F, 22.0 hr	23	%	
158°F, 22.0 hr	34	%	
257°F, 70.0 hr	55	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, 5 sec, Extruded	62		
Shore A, 5 sec, Injection Molded	65		



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<b>Aging</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Change in Tensile Strength in Air - Across Flow			ISO 188
275°F, 1000 hr	-4.0	%	
100% Strain 275°F, 1000 hr	3.0	%	
302°F, 168 hr	-1.0	%	
100% Strain 302°F, 168 hr	7.0	%	
Change in Tensile Strain at Break in Air - Across Flow			ISO 188
275°F, 1000 hr	-5.0	%	
302°F, 168 hr	-11	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 275°F, 1000 hr	2.0		
Shore A, 302°F, 168 hr	3.0		
Change in Volume (257°F, 70 hr, in IRM 903 Oil)	120	%	ISO 1817
<b>Additional Information</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Apparent Shear Viscosity - Capillary, 206 1/s (392°F)	310	Pa·s	ISO 11443

**Processing Information**

<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>
Rear Temperature	356 to 419	°F
Middle Temperature	356 to 419	°F
Front Temperature	356 to 419	°F
Nozzle Temperature	369 to 428	°F
Processing (Melt) Temp	365 to 428	°F
Mold Temperature	50.0 to 131	°F
Back Pressure	14.5 to 145	psi
Screw Speed	100 to 200	rpm
<b>Extrusion</b>	<b>Nominal Value</b>	<b>Unit</b>
Cylinder Zone 1 Temp.	356 to 392	°F
Cylinder Zone 2 Temp.	356 to 401	°F
Cylinder Zone 3 Temp.	369 to 410	°F
Cylinder Zone 4 Temp.	369 to 410	°F
Melt Temperature	383 to 419	°F
Die Temperature	383 to 419	°F
Take-Off Roll	68.0 to 122	°F

**Extrusion Notes**

Screen Pack: 20 to 60 mesh  
Screw: general purpose  
Compression Ratio: 3:1

**Notes**

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

<sup>2</sup> Method Ba, Angle (Unnicked)