# FLEXITEQ™ F87A100UV

### Thermoplastic Vulcanizate

Marplex Australia Pty. Ltd.

### Message:

FLEXITEQ™ F87A100UV is a formulation based on Santoprene™ rubber technology. It is formulated to incorporate smooth-touch and good mouldability properties. FLEXITEQ™ F87A100UV is a UV improved version and can be used in moulding applications on conventional thermoplastic equipment for injection moulding. It is polyolefin based and completely recyclable.

Good Moldability   Good UV Resistance   Recyclable Material   Forestein Molding   Forestein Molding   Forestein Molding   Forestein Molding   Forestein Molding   Forestein Gravity   0.958   9/cm³   A5TM D792   Forestein Gravity   0.958	General Information			
Good UV Resistance   Recyclable Material	Additive	UV Stabilizer		
Processing Method Injection Molding Physical Nominal Value Unit Test Method Specific Gravity 0.958 g/cm³ ASTM D792 Hardness Nominal Value Unit Test Method Durometer Hardness (Shore A, 15 sec) 90 To STM D792 Hardness Nominal Value Unit Test Method Durometer Hardness (Shore A, 15 sec) 90 MPa ASTM D2240 Hastomers Nominal Value Unit Test Method Pensile Strength ¹ (Break) 9.50 MPa ASTM D412 Test Strength ¹ (Break) 460 % ASTM D412 Test Strength ³ (23°C) 52.0 kN/m ASTM D412 Test Strength ³ (23°C) 52.0 kN/m ASTM D958 Injection Nominal Value Unit Drying Temperature 80.0 to 85.0 °C Drying Time 3.0 to 4.0 hr Rear Temperature 170 to 190 °C Rear Temperature 180 to 210 °C Rear Temperature 180 to 220 °C Rear Temperature 180 to 220 °C Rear Temperature 10.0 to 60.0	Features	Good Moldability		
Processing Method Injection Molding Physical Nominal Value Unit Test Method Specific Gravity 0.958 g/cm³ ASTM D792 Hardness Nominal Value Unit Test Method Durometer Hardness (Shore A, 15 sec) 90 ASTM D2240 Elastomers Nominal Value Unit Test Method Durometer Hardness (Shore A, 15 sec) 90 MPa ASTM D2240 Elastomers Nominal Value Unit Test Method December (Break) 9.50 MPa ASTM D412 Ferensile Strength ³ (Break) 460 % ASTM D412 Ferensile Strength ³ (23°C) 52.0 kN/m ASTM D624 Compression Set ³ (23°C, 70 hr) 47 % ASTM D958 Injection Nominal Value Unit D101 Drying Temperature 80.0 to 85.0 °C Drying Time 3.0 to 4.0 hr Rear Temperature 170 to 190 °C Wildidle Temperature 180 to 210 °C Processing (Met) Temp 190 to 230 °C World Temperature 10.0 to 60.0 °C World Temperature 10.0 to 200 rpm Elamp Tonnage 3.0 to 5.0 kN/cm² World Temperature 10.0 to 200 rpm Elamp Tonnage 3.0 to 5.0 mm/min Elamp Tonnage Die C, 500 mm/min		Good UV Resistance		
Nominal Value		Recyclable Material		
Nominal Value				
Specific Gravity   0.958   9/cm²   ASTM D792     Hardness   Nominal Value   Unit   Test Method     Durometer Hardness (Shore A, 15 sec)   90   Unit   Test Method     Durometer Hardness (Shore A, 15 sec)   90   Unit   Test Method     Hardness   Nominal Value   Unit   Test Method     Hardness   Nominal Value   Unit   Test Method     Hardness   Shore A, 15 sec)   9.50   MPa   ASTM D412     Hardness   ASTM D412     Hard	Processing Method	Injection Molding		
Nominal Value   Unit   Test Method	Physical	Nominal Value	Unit	Test Method
Description   Part	Specific Gravity	0.958	g/cm³	ASTM D792
Nominal Value   Unit   Test Method	Hardness	Nominal Value	Unit	Test Method
Serial Strength   1 (Break)   9.50   MPa   ASTM D412	Durometer Hardness (Shore A, 15 sec)	90		ASTM D2240
Fernsile Elongation 2 (Break)         460         %         ASTM D412           Fear Strength 3 (23°C)         52.0         kN/m         ASTM D624           Compression Set 4 (23°C, 70 hr)         47         %         ASTM D395B           Injection         Nominal Value         Unit           Drying Temperature         80.0 to 85.0         °C           Orying Time         3.0 to 4.0         hr           Rear Temperature         170 to 190         °C           Vididle Temperature         180 to 210         °C           Processing (Melt) Temp         190 to 230         °C           Voccessing (Melt) Temp         190 to 230         °C           Vold Temperature         10.0 to 60.0         °C           Vold Temperature         0.300 to 0.700         MPa           Voccessing (Melt) Temp         0.500 mm/min         kN/cm²	Elastomers	Nominal Value	Unit	Test Method
Sear Strength 3 (23°C)   52.0   KN/m   ASTM D624	Tensile Strength <sup>1</sup> (Break)	9.50	MPa	ASTM D412
Compression Set <sup>4</sup> (23°C, 70 hr)         47         %         ASTM D3958           Injection         Nominal Value         Unit           Drying Temperature         80.0 to 85.0         °C           Orying Time         3.0 to 4.0         hr           Rear Temperature         170 to 190         °C           Widdle Temperature         180 to 210         °C           Processing (Melt) Temp         190 to 230         °C           Viold Temperature         10.0 to 60.0         °C           Injection Rate         Fast         Sack Pressure           Back Pressure         0.300 to 0.700         MPa           Clamp Tonnage         3.0 to 5.0         kN/cm²           NOTE         Die C, 500 mm/min           2.         Die C, 500 mm/min	Tensile Elongation <sup>2</sup> (Break)	460	%	ASTM D412
Injection         Nominal Value         Unit           Drying Temperature         80.0 to 85.0         °C           Drying Time         3.0 to 4.0         hr           Rear Temperature         170 to 190         °C           Middle Temperature         180 to 210         °C           Front Temperature         200 to 220         °C           Processing (Melt) Temp         190 to 230         °C           Mold Temperature         10.0 to 60.0         °C           njection Rate         Fast         Sack Pressure           Sack Pressure         0.300 to 0.700         MPa           Crew Speed         100 to 200         rpm           Clamp Tonnage         3.0 to 5.0         kN/cm²           NOTE         Die C, 500 mm/min           2.         Die C, 500 mm/min           3.         Die C, 500 mm/min	Tear Strength <sup>3</sup> (23°C)	52.0	kN/m	ASTM D624
Onlying Temperature         80.0 to 85.0         °C           Onlying Time         3.0 to 4.0         hr           Rear Temperature         170 to 190         °C           Middle Temperature         180 to 210         °C           Front Temperature         200 to 220         °C           Processing (Melt) Temp         190 to 230         °C           Mold Temperature         10.0 to 60.0         °C           njection Rate         Fast           Sack Pressure         0.300 to 0.700         MPa           Screw Speed         100 to 200         rpm           Elamp Tonnage         3.0 to 5.0         kN/cm²           NOTE         Die C, 500 mm/min           2.         Die C, 500 mm/min           3.         Die C, 500 mm/min	Compression Set <sup>4</sup> (23°C, 70 hr)	47	%	ASTM D395B
Drying Time   3.0 to 4.0   hr	Injection	Nominal Value	Unit	
Rear Temperature         170 to 190         °C           Middle Temperature         180 to 210         °C           Front Temperature         200 to 220         °C           Processing (Melt) Temp         190 to 230         °C           Mold Temperature         10.0 to 60.0         °C           Back Pressure         0.300 to 0.700         MPa           Back Pressure         100 to 200         rpm           Clamp Tonnage         3.0 to 5.0         kN/cm²           NOTE         Die C, 500 mm/min           2.         Die C, 500 mm/min           3.         Die C, 500 mm/min	Drying Temperature	80.0 to 85.0	°C	
Middle Temperature       180 to 210       °C         Front Temperature       200 to 220       °C         Processing (Melt) Temp       190 to 230       °C         Mold Temperature       10.0 to 60.0       °C         Rack Pressure       0.300 to 0.700       MPa         Back Pressure       100 to 200       rpm         Clamp Tonnage       3.0 to 5.0       kN/cm²         NOTE       Die C, 500 mm/min         2.       Die C, 500 mm/min         3.       Die C, 500 mm/min	Drying Time	3.0 to 4.0	hr	
Front Temperature         200 to 220         °C           Processing (Melt) Temp         190 to 230         °C           Mold Temperature         10.0 to 60.0         °C           Processing (Melt) Temp         10.0 to 60.0         °C           Mold Temperature         0.300 to 0.700         MPa           Back Pressure         0.300 to 0.700         MPa           Clamp Tonnage         100 to 200         rpm           Clamp Tonnage         3.0 to 5.0         kN/cm²           NOTE         Die C, 500 mm/min           2.         Die C, 500 mm/min           3.         Die C, 500 mm/min	Rear Temperature	170 to 190	°C	
Processing (Melt) Temp         190 to 230         °C           Mold Temperature         10.0 to 60.0         °C           Injection Rate         Fast           Back Pressure         0.300 to 0.700         MPa           Grew Speed         100 to 200         rpm           Clamp Tonnage         3.0 to 5.0         kN/cm²           NOTE         Die C, 500 mm/min           2.         Die C, 500 mm/min           3.         Die C, 500 mm/min	Middle Temperature	180 to 210	°C	
Mold Temperature       10.0 to 60.0       °C         njection Rate       Fast       Carew Speed         Back Pressure       0.300 to 0.700       MPa         Clamp Tonnage       3.0 to 5.0       kN/cm²         NOTE       Die C, 500 mm/min         Die C, 500 mm/min       Die C, 500 mm/min         Back Pressure       Die C, 500 mm/min         Back Pressure       Die C, 500 mm/min	Front Temperature	200 to 220	°C	
rest       Fast         Back Pressure       0.300 to 0.700       MPa         Grew Speed       100 to 200       rpm         Clamp Tonnage       3.0 to 5.0       kN/cm²         NOTE       Die C, 500 mm/min         Die C, 500 mm/min       Die C, 500 mm/min         B.       Die C, 500 mm/min	Processing (Melt) Temp	190 to 230	°C	
Back Pressure       0.300 to 0.700       MPa         Grew Speed       100 to 200       rpm         Clamp Tonnage       3.0 to 5.0       kN/cm²         NOTE         I.       Die C, 500 mm/min         2.       Die C, 500 mm/min         3.       Die C, 500 mm/min	Mold Temperature	10.0 to 60.0	°C	
Screw Speed       100 to 200       rpm         Clamp Tonnage       3.0 to 5.0       kN/cm²         NOTE       Die C, 500 mm/min         2.       Die C, 500 mm/min         3.       Die C, 500 mm/min	Injection Rate	Fast		
Solution	Back Pressure	0.300 to 0.700	MPa	
Die C, 500 mm/min  Die C, 500 mm/min  Die C, 500 mm/min  Die C, 500 mm/min	Screw Speed	100 to 200	rpm	
Die C, 500 mm/min  Die C, 500 mm/min  Die C, 500 mm/min  Die C, 500 mm/min	Clamp Tonnage	3.0 to 5.0	kN/cm²	
2. Die C, 500 mm/min 3. Die C, 500 mm/min	NOTE			
B. Die C, 500 mm/min	1.	Die C, 500 mm/min		
	2.	Die C, 500 mm/min		
1. Type 2	3.	Die C, 500 mm/min		
21	4.	Type 2		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

## Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533 Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

