## Monprene® RG-18280 (PRELIMINARY DATA)

## Thermoplastic Elastomer

Teknor Apex Company

## Message:

The Monprene RG-18200 series is a group of unfilled high performance thermoplastic elastomers with high flow specifically designed for EU injection molded regulated applications including food contact, toys, and children's products. Monprene RG-18280 is a low density, medium hardness grade that complies with various US FDA and European regulations and directives for food contact and toy safety and is suitable for injection molding. Please contact Teknor Apex for a regulatory compliance letter.

General Information			
Features	Low Specific Gravity		
	Without Fillers		
	Low density		
	Workability, good		
	Good coloring		
	Good adhesion		
	Lubrication		
	Compliance of Food Exposure		
	Medium hardness		
Uses	Cosmetic Packaging		
	Handle		
	Kitchen utensils		
	Washer		
	Non-specific food applications		
	Cover		
	Food packaging		
	Food service sector		
	Food container		
	Shell		
	Toys		
	Rubber substitution		
	Consumer goods application field		
	Toothbrush handle		
Agency Ratings	FDA Food Exposure, Not Rated		
	European food contact, not rated		
RoHS Compliance	RoHS compliance		
Appearance	Translucent		
. presidine	Available colors		
	/wailable colors		

Particle		
Injection molding		
Nominal Value	Unit	Test Method
0.890	g/cm³	ISO 1183
Nominal Value	Unit	Test Method
80		ISO 868
Nominal Value	Unit	Test Method
		ISO 37
3.85	MPa	ISO 37
4.79	MPa	ISO 37
6.87	MPa	ISO 37
550	%	ISO 37
		ISO 815
41	%	ISO 815
62	%	ISO 815
Nominal Value	Unit	Test Method
103	Pa·s	ISO 11443
	Injection molding   Nominal Value   0.890   Nominal Value   80   Nominal Value   3.85   4.79   6.87   550   41   62   Nominal Value	Injection moldingNominal ValueUnit0.890g/cm³Nominal ValueUnit80UnitNominal ValueUnit3.85MPa4.79MPa6.87MPa550%41%62%Nominal ValueUnit

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Injection	Nominal Value	Unit
Rear Temperature	120 - 160	°C
Middle Temperature	160 - 230	°C
Front Temperature	180 - 230	°C
Nozzle Temperature	180 - 230	°C
Processing (Melt) Temp	180 - 230	°C
Mold Temperature	15 - 50	°C
Injection Rate	Fast	
Back Pressure	0.500 - 1.50	MPa
Screw Speed	50 - 100	rpm
Cushion	3.00 - 20.0	mm
Injection instructions		

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 65°C (150°F).Low holding pressure is recommended

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