# Monprene® PC-12153

#### Thermoplastic Elastomer

### **Teknor Apex Company**

#### Message:

Monprene® PC-12153 is a thermoplastic elastomer (TPE) material. This product is available in the Asia-Pacific region and is processed by extrusion or injection molding.

Typical application areas include:

Handle

safety equipment

packing

kitchen utensils

engineering/industrial accessories

General Information				
Uses	Safety equipment			
	Handle			
	Packaging			
	Kitchen utensils			
	Washer			
	Pipe fittings			
	Sporting goods			
	Shell			
	Stationery			
	Consumer goods application field			
	Toothbrush handle			
	Medical/nursing supplies			
Appearance	Natural color			
Forms	Particle			
Processing Method	Extrusion			
	Injection molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	0.890	g/cm³	ASTM D792	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	17	g/10 min	ASTM D1238	
Hardness	Nominal Value	Unit	Test Method	
Durometer Hardness			ASTM D2240	
Shaw A	55		ASTM D2240	
Shaw A, 5 seconds	53		ASTM D2240	
Elastomers	Nominal Value	Unit	Test Method	
Tensile Stress			ASTM D412	
100% strain	2.50	MPa	ASTM D412	

5.00	MPa	ASTM D412
8.00	MPa	ASTM D412
480	%	ASTM D412
Nominal Value	Unit	
182 - 232	°C	
188 - 238	°C	
193 - 243	°C	
199 - 249	°C	
199 - 249	°C	
35.0 - 48.9	°C	
1.38 - 5.52	MPa	
Fast		
0.172 - 0.689	MPa	
50 - 100	rpm	
3.81 - 25.4	mm	
	8.00  480  Nominal Value  182 - 232  188 - 238  193 - 243  199 - 249  199 - 249  35.0 - 48.9  1.38 - 5.52  Fast  0.172 - 0.689  50 - 100	8.00 MPa  480 %  Nominal Value Unit  182 - 232 °C  188 - 238 °C  193 - 243 °C  199 - 249 °C  199 - 249 °C  35.0 - 48.9 °C  1.38 - 5.52 MPa  Fast  0.172 - 0.689 MPa  50 - 100 rpm

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at  $150^{\circ}F$  ( $65^{\circ}C$ ).

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	182 - 232	°C
Cylinder Zone 2 Temp.	188 - 238	°C
Cylinder Zone 3 Temp.	193 - 243	°C
Cylinder Zone 5 Temp.	199 - 249	°C
Die Temperature	199 - 249	°C
Extrusion instructions		

Screw Speed: 30 to 100 rpm

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#### Recommended distributors for this material

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