# Monprene® CP-11170 (PRELIMINARY DATA)

### Thermoplastic Elastomer

Teknor Apex Company

#### Message:

The Monprene CP-11100 High Density Series of thermoplastic elastomer compounds, available in NAT or colors, from 40 to 90 Shore A, are designed specifically for consumer product applications requiring a soft, rubber-like feel. Monprene CP-11170 is a medium hardness, high density, filled grade that is suitable for injection molding.

Features   High specific gravity     High density   Workability, good     Good flexibility   Good coloring     Good adhesion   Good adhesion     Good adhesion   Good adhesion     Good denvical resistance   Fill     General   Medium hardness     Uses   Water Sports Equipment     Handle   Electrical appliances     Personal care   Furniture     Household goods   Soft touch application     Soft touch application   Soft seque     Soft manual   Soft manual     Rotschold   Rotschold     Rotschold   Soft manual     Soft manual   Soft manual     Stationery   Stationery     Stationery   Stationery     Stationery   Stationery     Stationery   Stationery     RothS Compliance   Rothorush handle     RothS Compliance   Rothorush handle	General Information	
Korkability. good       Good flexibility       Good coloring       Good adhesion       Good demical resistance       Fill       General       Medium hardness       Uses       Vater Sports Equipment       Handle       Electrical appliances       Personal care       Furniture       Household goods       Soft touch application       Soft touch application       Soft nonery       Consumer goods application field       Knob       Touthrush handle       RetSCompliance       RHS Compliance       RoHS Compliance       Appearance	Features	High specific gravity
Good flexibility     Good coloring     Good adhesion     Good chemical resistance     Fill     General     Medium hardness     Uses     Water Sports Equipment     Safety equipment     Bandle     Electrical appliances     Personal care     Purniture     Household goods     Soft upplication     Soft stainnery     Stainnery     Stationery     Costor splication field     Knob     Toxibrush handle     RotScompliance     RotScompliance     RotScompliance     RotScompliance     RotScompliance     RotScompliance		High density
Good coloring     Good adhesion     Cood chemical resistance     Fill     General     Medium hardness     Uses     Water Sports Equipment     Safety equipment     Handle     Electrical appliances     Personal care     Furniture     Household goods     Soft touch application     Soft handle     Sporting goods     Toys     Stationery     Stationery     Consumer goods application field     Knob     Toybinsh handle     RobScompliance     RoHS Compliance     Apperance     Opsigname		Workability, good
Good adhesion     Good adhesion     Good adhesion     Good adhesion     Fill     General     Medium hardness     Uses     Water Sports Equipment     Bafety equipment     Handle     Electrical appliances     Personal Care     Furniture     Household goods     Soft touch application     Soft handle     Sopting goods     Toys     Stationery     Stationery     Consumer goods application field     Knob     Torbibrush handle     RotAS Compliance     Appearance     Qacity		Good flexibility
Good chemical resistance     Fill     General     Medium hardness     Uses     Vater Sports Equipment     Handle     Electrical appliances     Personal care     Furniture     Household goods     Soft nandle     Sporting goods     Totys     Stationery     Stationery     Consumer goods application field     Knob     Totys     Stationery     Stationery     Consumer goods application field     Knob     Totybrush handle     RothScompliance     RoHS Compliance     Appearance     Opacity		Good coloring
Fil   General     Medium hardness   Sefve equipment     Handle   Eletrical appliances     Personal care   Fumiture     Household goods   Soft ouch application     Soft ouch application   Soft ouch application field     Koop   Toys     Stationery   Stationery     Stationery   Stationery     Robershamed   Forobrush handle     Robershamed   Forobrush handle     Apperance   Opoty		Good adhesion
General     Medium hardness     Uses   Water Sports Equipment     Handle   Batery equipment     Handle   Bectrical appliances     Personal care   Furniture     Household goods   Soft nuch application     Soft nuch application   Soft nuch application     Soft nuch application   Soft nuch application     Toys   Stationery     Stationery   Stationery     Consumer goods application field   Knob     Tothbrush handle   Sorthousehandle     RefS Compliance   RifS compliance     Appearance   Opoly		Good chemical resistance
Medium hardness     Uses   Water Sports Equipment     Safety equipment     Handle     Electrical appliances     Personal care     Furniture     Household goods     Soft touch application     Soft touch application     Soft sold application     Stationery     Stationery     Stationery     Stationery     Consumer goods application field     Knob     Tothbrush handle     Versoner goods application field     Rob     RobTombiance     RobPerance     Appearance		Fill
UsesWater Sports EquipmentSafety equipmentHandleElectrical appliancesPersonal careFurnitureHousehold goodsSoft touch applicationSoft handleSporting goodsToysStationeryStationeryConsumer goods application fieldKnobToothbrush handleRoHS ComplianceAppearanceOpacity		General
Safety equipment     Handle     Electrical appliances     Personal care     Furniture     Household goods     Soft touch application     Soft handle     Sporting goods     Stationery     Stationery     Consumer goods application field     Knob     Toothbrush handle     RoHS Compliance   RHS compliance     Appearance   Opacity		Medium hardness
Safety equipment     Handle     Electrical appliances     Personal care     Furniture     Household goods     Soft touch application     Soft handle     Sporting goods     Stationery     Stationery     Consumer goods application field     Knob     Toothbrush handle     RoHS Compliance   RHS compliance     Appearance   Opacity		
HandleElectrical appliancesPersonal careFurnitureHousehold goodsSoft touch applicationSoft handleSporting goodsStationeryStationeryConsumer goods application fieldKnobToyshubandleRoHS ComplianceAppearanceOpacitySpreiseAppearanceOpacity	Uses	Water Sports Equipment
Electrical appliancesPersonal careFurnitureHousehold goodsSoft touch applicationSoft handleSporting goodsToysStationeryStationeryConsumer goods application fieldKnobToothbrush handleRoHS ComplianceAppearanceOpacity		Safety equipment
Personal careFurnitureHousehold goodsSoft touch applicationSoft handleSporting goodsToysStationeryStationeryConsumer goods application fieldKnobTotybrush handleRoHS ComplianceAppearanceOpacity		Handle
FurnitureHousehold goodsSoft touch applicationSoft handleSporting goodsToysStationeryConsumer goods application fieldKnobToothbrush handleRoHS ComplianceAppearanceOpcity		Electrical appliances
Household goodsSoft touch applicationSoft handleSporting goodsToysStationeryStationeryConsumer goods application fieldKnobTothbrush handleRoHS ComplianceAppearanceOpacity		Personal care
Soft touch applicationSoft handleSporting goodsToysStationeryStationeryConsumer goods application fieldKnobToothbrush handleROHS ComplianceAppearanceOpacity		Furniture
Soft handleSporting goodsToysStationeryStationeryConsumer goods application fieldKnobToothbrush handleROHS ComplianceAppearanceOpacity		Household goods
Sporting goodsToysStationeryStationeryConsumer goods application fieldKnobToothbrush handleROHS ComplianceAppearanceOpacity		Soft touch application
ToysStationeryStationeryConsumer goods application fieldKnobToothbrush handleROHS ComplianceAppearanceOpacity		Soft handle
StationeryStationeryConsumer goods application fieldKnobToothbrush handleRoHS ComplianceAppearanceOpacity		Sporting goods
StationeryConsumer goods application fieldKnobToothbrush handleRoHS ComplianceAppearanceOpacity		Toys
Consumer goods application fieldKnobToothbrush handleRoHS ComplianceRoHS complianceAppearanceOpacity		Stationery
KnobToothbrush handleRoHS ComplianceRoHS complianceAppearanceOpacity		Stationery
Toothbrush handleRoHS ComplianceRoHS complianceAppearanceOpacity		Consumer goods application field
RoHS Compliance RoHS compliance   Appearance Opacity		Knob
Appearance Opacity		Toothbrush handle
Appearance Opacity		
	RoHS Compliance	RoHS compliance
Available colors	Appearance	Opacity
		Available colors

Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec)	70		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress - Across Flow (100% Strain)	2.00	MPa	ISO 37
Tensile Stress - Across Flow (Break)	10.9	MPa	ISO 37
Tensile Elongation - Across Flow (Break)	840	%	ISO 37
Tear Strength <sup>1</sup>			ISO 34-1
Transverse flow	31	kN/m	ISO 34-1
Flow	31	kN/m	ISO 34-1
Compression Set <sup>2</sup> (70°C, 22 hr)	38	%	ISO 815
Additional Information	Nominal Value	Unit	Test Method
Apparent Shear Viscosity - Capillary, @ 206/s (200°C)	194	Pa·s	ASTM D3835
Legal statement			

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchaser assumes all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or others. There is no warranty of merchantability and there are no other warranties for the products described. For detailed Product Stewardship information, please contact us. Any product of Teknor Apex, including product names, shall not be used or tested in medical or food contact applications without the prior written acknowledgement of Teknor Apex as to the intended use. Please note that some products may not be available in one or more countries.

Injection	Nominal Value	Unit
Rear Temperature	160 - 177	°C
Middle Temperature	182 - 204	°C
Front Temperature	193 - 216	°C
Nozzle Temperature	182 - 227	°C
Processing (Melt) Temp	182 - 227	°C
Mold Temperature	27 - 49	°C
Injection Rate	Moderate-Fast	
Back Pressure	0.172 - 0.689	MPa
Screw Speed	50 - 100	rpm
Cushion	3.81 - 12.7	mm
Injection instructions		

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

NOTE	
1.	Method B, right-angle specimen (without cut)
2.	Туре а

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

## 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

