

## Special Grade

Our PVC special grade resins are produced by suspension polymerization process, white powder and free-flowing resins, compounded with other additives by using standard mixing technique to develop unique properties needed in different applications. TPC offers two series of specialty resins as follows:

### Series "Z"

- Extremely low fish eye count
- Excellent initial coloration and thermal stability
- High degree of transparency
- Low contamination levels

### Series "High K value"

- Excellent plasticizer absorption and dry up abilities
- High strength and elasticity
- Excellent mechanical performance of finished articles



Property	Test Method	Unit	Series "Z"			Series "High K value"		
			SG58Z	SG66Z	SG71Z	SG730	SG760	SG840
K-Value	DIN 53726	-	57.0-59.0	65.0-67.0	70.0-72.0	72.0-74.0	75.0-77.0	83.0-85.0
Apparent Bulk density	ISO-60	g/ml	0.50-0.65	0.45-0.55	0.45-0.55	0.45-0.51	0.45-0.52	0.42-0.52
Volatile Matter	ISO-1269	%	0.3 max	0.3 max	0.3 max	0.3 max	0.3 max	0.3 max
Sieve Analysis								
Retained on 250 micron	ASTM D - 1921	%	2.0 max	2.0 max	2.0 max	2.0 max	2.0 max	2.0 max
Retained on 75 micron	ASTM D - 1921	%	90.0 min	90.0 min	90.0 min	90.0 min	90.0 min	90.0 min
Impurity and Foreign Matter	ISO/R-1265	Specks/100sq.	20 max	20 max	20 max	20 max	20 max	20 max
Fish eye	TPC Method	Point/150 cm <sup>2</sup>	20 max	20 max	20 max	-	-	-
Volume Resistivity	TPC Method	Ohm-cm	-	3.0 x 10 <sup>13</sup> min	3.0 x 10 <sup>13</sup> min	-	-	-

Process	Product Application	Series "Z"			Series "High K value"		
		SG58Z	SG66Z	SG71Z	SG730	SG760	SG840
Calendering	Flexible sheet & Transparent sheet (Packaging, Curtain, Stationary, etc.)		⊗	⊗	⊗		
	Rigid sheet & Transparent sheet (Packaging, Stationary, etc.)	⊗					
	High strength flexible film & sheet (Matt cover sheet, etc.)				⊗	⊗	⊗
	Credit Card, Pharmaceutical blister pack, Christmas Tree	⊗					
	Electrical taper			⊗	⊗	⊗	⊗
	Sticker and Decorative sheet		⊗				
Extrusion	Artificial leather, Inflatable Toy				⊗	⊗	⊗
	Flexible profile (Furniture trim, Gaskets, Automotive part, etc.)		⊗	⊗	⊗	⊗	⊗
	Rigid profile (Furniture trim, Conduit, Automotive part, Electrical part, etc.)	⊗					
	High strength & abrasion resistance flexible product (Automotive part, etc.)				⊗	⊗	⊗
	Bottle & IC tube	⊗					
	Shrink label & Shrink wrap & Cap seal	⊗	⊗				
	Wrap & Cling film		⊗	⊗			
	Electrical wire & cable, Wire harness			⊗	⊗	⊗	⊗
	High strength and thermal stability wire & cable, Wire harness				⊗	⊗	⊗
	Flexible & Transparent hose		⊗	⊗			
Injection	High pressure hose, Matt surface hose				⊗	⊗	⊗
	Rigid product (Screw driver handle, Decorative parts, Automotive parts, etc.)	⊗					
	Flexible product (Decorative parts, Automotive parts, etc.)		⊗	⊗	⊗	⊗	⊗
	High elasticity product (Loop sandal, Gear knob, Brush, etc.)				⊗	⊗	⊗

