

Versaflex[™] CE 3140-65N

Thermoplastic Elastomer

Key Characteristics

Product Description

Versaflex™ ČE 3140-65N is designed for 5G consumer electronics applications providing excellent abrasion resistance, chemical resistance and a silky feel.

Versaflex™ CE 3140-65N can overmold onto PC, ABS, PC/ABS, and Copolyester.

General			
Material Status	 Commercial: Active 		
Regional Availability	 Asia Pacific 	 North America 	
Features	 Specialty Grade 		
Uses	 Consumer Applications 	 Overmolding 	 Soft Touch Applications
RoHS Compliance	 RoHS Compliant 		
Appearance	 Natural Color 		
Forms	 Pellets 		
Processing Method	 Injection Molding 		

Technical Properties 1

Typical Value (English)	Typical Value (SI)	Test Method
1.00	1.00	ASTM D792
Typical Value (English)	Typical Value (SI)	Test Method
780 psi	5.38 MPa	ASTM D412
1650 psi	11.4 MPa	ASTM D412
550 %	550 %	ASTM D412
Typical Value (English)	Typical Value (SI)	Test Method
65	65	ASTM D2240
Typical Value (English)	Typical Value (SI)	Test Method
		Internal Method
2.73	2.73	
2.77	2.77	
2.49	2.49	
		Internal Method
0.045	0.045	
0.023	0.023	
0.024	0.024	
Typical Value (English)	Typical Value (SI)	Test Method
_		ASTM D3835
28.0 Pa⋅s	28.0 Pa·s	
	1.00 Typical Value (English) 780 psi 1650 psi 550 % Typical Value (English) 65 Typical Value (English) 2.73 2.77 2.49 0.045 0.023 0.024 Typical Value (English)	1.00 1.00 Typical Value (English) Typical Value (SI) 780 psi 5.38 MPa 1650 psi 11.4 MPa 550 % 550 % Typical Value (English) Typical Value (SI) 65 65 Typical Value (English) Typical Value (SI) 2.73 2.77 2.49 2.77 2.49 2.49 0.045 0.023 0.024 Typical Value (English) Typical Value (SI)

Processing Information

Injection	Typical Value (English)	Typical Value (SI)	
Drying Temperature	120 to 140 °F	49 to 60 °C	_
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr	
Suggested Max Moisture	0.020 to 0.030 %	0.020 to 0.030 %	
Rear Temperature	340 to 360 °F	171 to 182 °C	

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Injection	Typical Value (English)	Typical Value (SI)	
Middle Temperature	360 to 410 °F	182 to 210 °C	
Front Temperature	370 to 420 °F	188 to 216 °C	
Nozzle Temperature	380 to 430 °F	193 to 221 °C	
Processing (Melt) Temp	380 to 425 °F	193 to 218 °C	
Mold Temperature	55 to 85 °F	13 to 29 °C	
Back Pressure	0.00 to 50.0 psi	0.00 to 0.345 MPa	
Screw Speed	50 to 100 rpm	50 to 100 rpm	
Injection Notes			

Typical colorant letdown ratios are 50:1 to 25:1 - loading levels should be as low as possible to minimize the effect on adhesion. A high color match consistency can be obtained by the use of precolored compounds available from GLS. Concentrates based on PVC should not be used. The final determination of color concentrate suitability should be determined by customer trials. Contact GLS for more information on appropriate color concentrate base resins.

Purge thoroughly before and after use of this product with a low flow (0.5 - 2.5 MFR) polyethylene (PE) or polypropylene (PP).

Versaflex CE 3140-65N should not be left in the barrel for extended idle periods (greater than 5 minutes).

Suggested Dewpoint: -40°F

Hot Runners: 380°F-440°F Hot Tip: 380°F-450°F

Injection Speed: 0.5 to 2 in/sec

1st Stage - Boost Pressure: 500 to 1,000 psi 2nd Stage - Hold Pressure: 20-60% of Boost

Hold Time (Thick Part): 2 to 4 sec Hold Time (Thin Part): 1 to 2 sec

Notes

¹ Typical values are not to be construed as specifications.

² Die C

³ 2 hr

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