

# Versaflex™ CE 3120-80N

Thermoplastic Elastomer

PolyOne Corporation

## Message:

Versaflex™ CE 3120-80N is targeted for consumer electronics applications where excellent abrasion resistance, chemical resistance and silky feel are required.

Versaflex™ CE 3120-80N can also overmold to a variety of substrates including PC, ABS, PC/ABS, and Copolyester.

General Information			
Features	Special specifications		
Uses	overmolding		
	Soft touch application		
	Consumer goods application field		
RoHS Compliance	RoHS compliance		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	79		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (300% Strain, 23°C)	6.89	MPa	ASTM D412
Tensile Strength (Break, 23°C)	13.5	MPa	ASTM D412
Tensile Elongation (Break, 23°C)	750	%	ASTM D412
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (200°C, 11200 sec <sup>-1</sup> )	32.0	Pa · s	ASTM D3835
Injection	Nominal Value	Unit	
Drying Temperature	49 - 60	°C	
Drying Time	3.0 - 4.0	hr	
Suggested Max Moisture	0.020 - 0.030	%	
Rear Temperature	177 - 188	°C	
Middle Temperature	182 - 199	°C	
Front Temperature	188 - 216	°C	
Nozzle Temperature	193 - 221	°C	
Processing (Melt) Temp	193 - 218	°C	
Mold Temperature	13 - 54	°C	
Back Pressure	0.00 - 0.345	MPa	
Screw Speed	50 - 80	rpm	
Injection instructions			

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 3120-80N 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

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 infringement occurs, please contact us immediately.

#### 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

