

Versaflex™ GP 2810-80N

Thermoplastic Elastomer

PolyOne Corporation

Message:

Versaflex™G 7360 is an easy-to-process universal TPE designed for a wide range of applications, including applications that must comply with FDA standards.

Do not slip when holding

It can be bonded to polypropylene by overlapping molding

Soft to the touch and similar to rubber

General Information			
Features	Recyclable materials		
	Workability, good		
	Good liquidity		
	Good coloring		
	General		
Uses	overmolding		
	Washer		
	Household goods		
	Seals		
	Soft touch application		
	Soft handle		
	General		
	Consumer goods application field		
Agency Ratings	FDA 21 CFR 177.1210 2		
	FDA 21 CFR 177.2600 2		
	Europe 10/1/2011 12:00 AM 2		
RoHS Compliance	RoHS compliance		
Appearance	Translucent		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.890	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	20	g/10 min	ISO 1133
190°C/5.0 kg	> 100	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 3 sec)	80		DIN 53505

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			DIN 53504
100% strain, 2.00mm	3.50	MPa	DIN 53504
300% strain, 2.00mm	4.50	MPa	DIN 53504
Tensile Strength ¹ (Break, 2.00 mm)	6.00	MPa	DIN 53504
Tensile Elongation ² (Break, 2.00 mm)	500	%	DIN 53504
Tear Strength (2.00 mm)	30.0	kN/m	ISO 34
Compression Set			ISO 815
23°C, 72 hr	38	%	ISO 815
70°C, 22 hr	60	%	ISO 815
100°C, 22 hr	77	%	ISO 815
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (200°C, 11200 sec ⁻¹)	7.60	Pa·s	ISO 11443
Injection	Nominal Value	Unit	
Suggested Max Regrind	20	%	
Rear Temperature	160 - 188	°C	
Middle Temperature	177 - 193	°C	
Front Temperature	188 - 210	°C	
Nozzle Temperature	188 - 216	°C	
Mold Temperature	16 - 38	°C	
Injection Rate	Moderate-Fast		
Back Pressure	0.00 - 0.827	MPa	
NOTE			
1.	2 hours		
2.	2 hours		

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