

# Dryflex® PCW 50D801B

Thermoplastic Elastomer

ELASTO

## Message:

Dryflex PCW 50D801B: Thermoplastic Elastomer

Base Material: TPO

Hardness: 50 Shore D

Service Temperature Range: -50 to +120°C (Unstressed Material).

Colour: Black

Presentation: Free flowing pellets that can be processed without predrying when stored under normal conditions

Weather Resistance: Excellent

Ozone / UV Resistance: Excellent

Chemical Resistance: Good (excluding organic solvents, aromatic and vegetable oils)

Recycling: 100% recyclable

Mould Shrinkage (linear): Approx. 0.75 - 2% depending on e.g. shape of the detail and placement of gate

Bonds to: PP, PE

Special Features: This grade contains approximately 80% by weight of Post Consumer Waste

General Information			
Recycled Content	Yes,80%		
Features	Good Chemical Resistance		
	Good UV Resistance		
	Good Weather Resistance		
	Ozone Resistant		
	Recyclable Material		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.00	g/cm <sup>3</sup>	ISO 2781
Molding Shrinkage <sup>1</sup>	0.75 to 2.0	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	50		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	12.9	MPa	ISO 37
Tensile Elongation (Break)	24	%	ISO 37
Tear Strength <sup>2</sup>	82	kN/m	ISO 34-1
Compression Set <sup>3</sup>			ISO 815
23°C, 23 hr	73	%	
70°C, 23 hr	81	%	
Thermal	Nominal Value	Unit	
Service Temperature <sup>4</sup>	-50 to 120	°C	
Injection	Nominal Value	Unit	

Rear Temperature	180 to 230	°C
Middle Temperature	180 to 230	°C
Front Temperature	180 to 230	°C
Mold Temperature	30.0 to 50.0	°C

#### NOTE

- |    |                                                             |
|----|-------------------------------------------------------------|
| 1. | Depending on e.g. shape of the detail and placement of gate |
| 2. | Method C, Crescent                                          |
| 3. | Type B                                                      |
| 4. | Unstressed Material                                         |

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#### Recommended distributors for this material

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