

Dryflex® PS 50R201B

Styrene Ethylene Butylene Styrene Block Copolymer

ELASTO

Message:

Dryflex PS 50R201B: Thermoplastic Elastomer

Base Material: TPS-SEBS

Hardness: 50 IRHD

Service Temperature Range: -50°C to 120°C

Colour: Black, but can easily be coloured in any shade

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

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

Special Features: Meets the requirements of BS EN 681-2-2000, the European Standard EN 681-2, Type WT, elastomeric seals for pipe joints

General Information			
Features	Good Chemical Resistance		
	Good Processability		
	Recyclable Material		
Agency Ratings	EN 681-2, Type WT		
	EN 681-2-2000		
Appearance	Black		
	Colors Available		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 2781
Molding Shrinkage ¹	0.75 to 2.0	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	46		ISO 868
IRHD Hardness	50		ISO 48
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
Across Flow : Yield	8.00	MPa	
Flow : Yield	4.00	MPa	
Tensile Elongation			ISO 37
Across Flow : Break	900	%	
Flow : Break	760	%	

Compression Set ²			ISO 815
-10°C, 72 hr	58	%	
23°C, 72 hr	15	%	
70°C, 24 hr	36	%	
Stress Relaxation			ISO 3384
100 day (2400 hr) : 23°C	21	%	
7 day (168 hr) : 23°C	15	%	
Change in Volume - Ozone Resistance	No cracking		ISO 1431-1
Service Temperature	-50 to 120	°C	
Aging	Nominal Value	Unit	Test Method
Change in Tensile Stress (70°C, 168 hr)	4.5	%	ISO 37
Change in Tensile Strain at Break (70°C, 168 hr)	4.0	%	ISO 37
Change in Shore Hardness (IRHD, 70°C, 168 hr)	2.0		ISO 48
Change in Volume (70°C, 168 hr, in Water)	1.0	%	ISO 1817
Injection	Nominal Value	Unit	
Rear Temperature	190 to 210	°C	
Middle Temperature	190 to 210	°C	
Front Temperature	190 to 210	°C	
Mold Temperature	15.0 to 50.0	°C	
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	150 to 210	°C	
Cylinder Zone 2 Temp.	150 to 210	°C	
Cylinder Zone 3 Temp.	150 to 210	°C	
Cylinder Zone 4 Temp.	150 to 210	°C	
Cylinder Zone 5 Temp.	150 to 210	°C	
NOTE			
1.	Depending on shape of the detail and placement of gate		
2.	Type B		

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