Dryflex® PS 60R201B

Styrene Ethylene Butylene Styrene Block Copolymer

ELASTO

Message:

DryflexPS 60R201B: Thermoplastic Elastomer
Base Material: TPS-SEBS
Hardness: 60 IRHD
Service Temperature Range: -50 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	Recyclable materials Workability, good Good chemical resistance
Agency Ratings	EN 681-2, Type WT EN 681-2-2000
Appearance	Black Available colors
Forms	Particle
Processing Method	Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm³	ISO 2781
Molding Shrinkage [1]	0.75 - 2.0	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	51		ISO 868
IRHD Hardness	60		ISO 48
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ISO 37
Acos flow: Yield	9.50	MPa	ISO 37
Flow: Yield	4.50	MPa	ISO 37
Tensile Elongation			ISO 37
Transverse flow: Fracture	830	%	ISO 37
Flow: Fracture	680	%	ISO 37

Compression Set [2]			ISO 815
-10°C, 72 hr	60	%	ISO 815
23°C, 72 hr	22	%	ISO 815
70°C, 24 hr	34	%	ISO 815
Stress relaxation			ISO 3384
100 day (2400 hr) : 23°C	29	%	ISO 3384
7 day (168 hr) : 23°C	21	%	ISO 3384
Change in Volume - Ozone Resistance	No Cracking		ISO 1431-1
Service Temperature	-50 - 120	°C	

Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength (70°C, 168 hr)	1.0	%	ISO 37
Change in Tensile Strain at Break (70°C, 168 hr)	3.0	%	ISO 37
Change in Shore Hardness (IRHD, 70°C, 168 hr)	1.0		ISO 48
Change in Volume (70°C, 168 hr, in Water)	1.0	%	ISO 1817

Injection	Nominal Value	Unit
Rear Temperature	190 - 210	°C
Middle Temperature	190 - 210	°C
Front Temperature	190 - 210	°C
Mold Temperature	15 - 50	°C

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	150 - 210	°C
Cylinder Zone 2 Temp.	150 - 210	°C
Cylinder Zone 3 Temp.	150 - 210	°C
Cylinder Zone 4 Temp.	150 - 210	°C
Cylinder Zone 5 Temp.	150 - 210	°C

NOTE	
1.	Depending on shape of the detail and placement of gate
2.	Type B

Recommended distributors for this material

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