

Dryflex® 51616 PS

Styrene Ethylene Butylene Styrene Block Copolymer

ELASTO

Message:

Dryflex 51616 PS: Thermoplastic Elastomer

Base Material: TPS-SEBS

Hardness: 30 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: Designed for waste water pipe seal applications.

General Information			
Features	Recyclable materials		
	Workability, good		
	Good chemical resistance		
Uses	Seals		
Appearance	Black		
	Available colors		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.00	g/cm ³	ISO 2781
Molding Shrinkage ¹	0.75 - 2.0	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	34		ISO 868
IRHD Hardness	30		ISO 48
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
Acos flow: Yield	2.30	MPa	ISO 37
Flow: Yield	5.10	MPa	ISO 37
Tensile Elongation			ISO 37
Transverse flow: Fracture	740	%	ISO 37
Flow: Fracture	450	%	ISO 37
Compression Set ²			ISO 815
-10°C, 72 hr	55	%	ISO 815

23°C, 72 hr	12	%	ISO 815
70°C, 24 hr	33	%	ISO 815
Aging	Nominal Value	Test Method	
Change in Volume - Ozone Resistance	No cracking	ISO 1431-1	
Service Temperature	-50 - 120	°C	
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		

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WECHAT