Product Data

GAFONE™ PES
polyethersulfone

PES 3600

Property	ASTM Test Method	Typical Values (1) U.S. Customary Units Value	U.S. Customary Units Units	SI Units Value	SI Units Units
General					
Specific Gravity	D 792	1.37		1.37	
Water Absorption, 24 hours	D 570	0.56	%	0.56	%
Melt Flow Rate (380°C, 2.16 kg)	D 1238	71-85	g/10 min.	71-85	g/10 min.
Mechanical					
Tensile Strength	D 638	12.9	kpsi	90	MPa
Tensile Modulus	D 638	358	kpsi	2.5	GPa
Tensile Elongation at Break	D 638	25-75	%	25-75	%
Flexural Strength	D 790	16.5	kpsi	115	MPa
Flexural Modulus	D 790	358	kpsi	2.5	GPa
Impact Strength- Notched Izod	D 256	1.0	ft-lb/in	55	J/m
Thermal					
DTUL at 264 psi (1.82 MPa)(2)	D 648	383	°F	200	°C
Glass Transition Temp.	D 3482	433	°F	223	°C
Continuous Use Temperature(3)	UL–746B	356	°F	180	°C
Coefficient of Linear Thermal Expansion	D 696	32	10^{-6}/°F	57	10^{-6}/°C
Electrical					
Dielectric Strength	D 149	405	V/mil	16	kV/mm
Dielectric Constant @ 60 Hz	D 150	3.2		3.2	
Dissipation Factor @ 60 Hz	D 150	0.004		0.004	
Volume Resistivity	D 257	$>10^{16}$	ohm-cm	$>10^{16}$	ohm-cm
Surface Resistivity	D 257	$>10^{14}$	ohm/sq	$>10^{14}$	ohm/sq
Comparative Tracking Index	D 3638	150	V	150	V
Arc Resistance	D 495	50	sec	50	sec
Flammability					
Flammability at 3.2 mm (0.126”)	UL 94	V-0		V-0	
Limiting Oxygen Index	D 2863	40	%	40	%

(1) These properties has been determined from injection molded test specimen under ideal processing parameters and conditioned at 23+/- 2°C and 50%RH .

(2) Measured from annealed specimen

(2) Expected

Approvals
NSF 51, 61 Certified
USP Class VI approved
EPA TSCA Registered

Solvay
Advanced Polymers

SOLVAY

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Product Safety and Emergency Service

For product safety information or a Material Safety Data Sheet on a product of Solvay Advanced Polymers

1 (800) 621-4557
1 (770) 772-8880 outside of U.S.

For information or help in an emergency such as a spill, leak, fire or explosion, call day or night:

Emergency Health Information

1 (800) 621-4590
1 (770) 772-5177 outside of U.S.

Emergency Spill Information

CHEMTREC 1 (800) 424-9300
1 (703) 527-3887 outside of U.S.
collect calls accepted

For Additional Information

Technical Service
1 (800) 621-4557

Customer Service
1 (800) 848-9744