

Celstran® PPS-AF35-01-

Polyphenylene Sulfide

Celanese Corporation

Message:

PPS with 35% aramid fiber by weight

General Information			
Filler / Reinforcement	Aramid fiber, 35% filler by weight		
RoHS Compliance	Contact manufacturer		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow	0.30	%	ASTM D955
Transverse flow	0.40	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	9650	MPa	ASTM D638
--	8800	MPa	ISO 527-2/1A/1
Tensile Strength			
Fracture, 23°C	99.3	MPa	ASTM D638
Fracture	77.0	MPa	ISO 527-2/1A/5
Tensile Elongation			
Fracture, 23°C	1.3	%	ASTM D638
Fracture	1.4	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	8500	MPa	ISO 178
Flexural Stress (23°C)	140	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	260	°C	ASTM D648, ISO 75-2/A
Injection	Nominal Value	Unit	Test Method
Drying Temperature	130 - 140	°C	
Drying Time	3.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	70.0 - 80.0	°C	
Rear Temperature	285 - 295	°C	
Middle Temperature	290 - 300	°C	
Front Temperature	295 - 305	°C	
Nozzle Temperature	290 - 300	°C	

Processing (Melt) Temp	300 - 310	°C
Mold Temperature	140 - 160	°C
Injection instructions		

Zone 4 Temperature: 300 to 310°C Feed Temperature: 20 to 50°C

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Recommended distributors for this material

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