

Padermid 6 AF-S

Polyamide 6
TKC Kunststoffe e.K.

Message:

Padermid 6 AF-S is a Polyamide 6 (Nylon 6) material. It is available in Europe for injection molding.
Typical applications include:
Automotive
Consumer Goods
Handles

General Information			
Uses	Automotive Applications		
	Consumer Applications		
	Handles		
Appearance	Black		
	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	ISO 1183
Molding Shrinkage			ISO 2577
Across Flow	1.2	%	
Flow	0.80	%	
Water Absorption (23°C, 24 hr)	1.5	%	DIN 53495
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2800	MPa	ISO 527-2/1
Tensile Stress (Yield)	80.0	MPa	ISO 527-2/50
Tensile Strain (Break)	15	%	ISO 527-2/50
Flexural Modulus ¹	2300	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	180	°C	ISO 75-2/B
1.8 MPa, Unannealed	80.0	°C	ISO 75-2/A
Vicat Softening Temperature	206	°C	ISO 306
Melting Temperature (DSC) ²	222	°C	ISO 3146
Injection	Nominal Value	Unit	Test Method
Drying Temperature	80.0	°C	

Drying Time	3.0	hr
Processing (Melt) Temp	250 to 270	°C
Mold Temperature	60.0 to 90.0	°C
Injection Pressure	70.0 to 120	MPa
Residual Moisture Content	< 0.200	DIN 53495

NOTE

1. 2.0 mm/min
2. 10°C/min

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Recommended distributors for this material

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