

Akulon® K224-PG2

Polyamide 6
DSM Engineering Plastics

Message:

Akulon® K224-PG2 is a Polyamide 6 (Nylon 6) material filled with 8.0% glass fiber. It is available in Europe.
Important attributes of Akulon® K224-PG2 are:
Flame Rated
Impact Modified

General Information				
Filler / Reinforcement		Glass Fiber,8.0% Filler by Weight		
Additive		Impact Modifier		
Features		Impact Modified		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.15	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	7.6	--	%	
Equilibrium, 23°C, 50% RH	2.2	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3700	1900	MPa	ISO 527-2
Tensile Stress (Break)	85.0	50.0	MPa	ISO 527-2
Tensile Strain (Break)	5.5	15	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.0	4.0	kJ/m ²	
23°C	15	22	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	45	45	kJ/m ²	
23°C	65	80	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	200	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	125	--	°C	ISO 75-2/A
CLTE				ISO 11359-2
Flow	3.0E-5	--	cm/cm/°C	
Transverse	8.0E-5	--	cm/cm/°C	
Flammability	Dry	Conditioned		Test Method

Flammability Classification (1.60 mm)	HB	--	IEC 60695-11-10, -20
Injection	Dry	Unit	
Drying Temperature	80.0		°C
Drying Time	4.0 to 8.0		hr
Rear Temperature	255 to 265		°C
Middle Temperature	265 to 275		°C
Front Temperature	265 to 280		°C
Nozzle Temperature	260 to 280		°C
Processing (Melt) Temp	250 to 285		°C
Mold Temperature	50.0 to 80.0		°C
Injection Rate	Moderate-Fast		
Back Pressure	3.00 to 10.0		MPa
Screw Compression Ratio	2.5:1.0		

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Recommended distributors for this material

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