

Tecnoprene® AK8 NAT001

Polypropylene
Celanese Corporation

Technical Data		
Product Description		
Polypropylene, homopolymer, 40% glass fiber reinforced, chemically coupled.		
General		
Filler / Reinforcement	• Glass Fiber	
Processing Method	• Injection Molding	
Physical	Nominal Value Unit	Test Method
Density	1.22 g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.8 g/10 min	ISO 1133
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	9200 MPa	ISO 527-2/1A
Tensile Stress (Break)	100 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.7 %	ISO 527-2/1A/5
Flexural Modulus (23°C)	8500 MPa	ISO 178
Flexural Stress (23°C)	160 MPa	ISO 178
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength (23°C)	12 kJ/m²	ISO 179/1eA
Notched Izod Impact Strength (23°C)	12 kJ/m²	ISO 180/1A
Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature 1.8 MPa, Unannealed	150 °C	ISO 75-2/A
Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
1.5 mm	HB	
3.2 mm	HB	
Injection	Nominal Value Unit	
Drying Temperature	80 to 100 °C	
Drying Time	2.0 to 3.0 hr	
Rear Temperature	200 to 220 °C	
Middle Temperature	220 to 240 °C	
Front Temperature	240 to 260 °C	
Nozzle Temperature	240 to 260 °C	
Mold Temperature	50 to 80 °C	