

Edgetek™ 5209 Black 30 A 1

Acetal (POM) Copolymer

PolyOne Corporation

Message:

The Edgetek® Engineering Thermoplastic Compounds portfolio covers a broad range of standard and custom-formulated high performance materials. This portfolio includes high-temperature materials for elevated service temperature environments, high-modulus / structural materials for load-bearing and high-strength applications and flame-retardant products. These compounds are based on select engineering thermoplastic resins that are compounded with reinforcing additives such as carbon fiber, glass fiber and glass beads.

General Information			
Features	Copolymer		
	General Purpose		
	Good Wear Resistance		
	Low Friction		
Uses	Automotive Applications		
	Bearings		
	Business Equipment		
	Consumer Applications		
	Gears		
	General Purpose		
	Industrial Applications		
	Pulleys		
	Rollers		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹ (190°C/2.16 kg)	8.2	g/10 min	ASTM D1238
Molding Shrinkage - Flow	2.5 to 2.7	%	ASTM D955
Water Absorption (24 hr, 3.18 mm)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ²	2520	MPa	ASTM D638
Tensile Strength ³ (Yield)	65.5	MPa	ASTM D638
Tensile Elongation ⁴ (Break)	40	%	ASTM D638
Flexural Modulus	2520	MPa	ASTM D790
Flexural Strength	89.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	69	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	110	°C	ASTM D648
CLTE - Flow	8.6E-5	cm/cm/°C	ASTM D696
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	188 to 210	°C	
Mold Temperature	48.9 to 82.2	°C	
NOTE			
1.	Procedure A		
2.	Type I, 5.1 mm/min		
3.	Type I, 5.1 mm/min		
4.	Type I, 5.1 mm/min		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

