

Nylene® 452

Polyamide 6
Custom Resins Group

Message:

Plasticized, injection molding nylon for use in applications requiring high flexibility, excellent toughness, and abrasion resistance, due to internal lubricant and high monomer content
Performs well in critical molding processes requiring very good melt flow
Optimum processing conditions should provide a melt temperature of 450°F-470°F at the nozzle

General Information			
Additive	Lubricant		
	Plasticizer		
Features	Good Abrasion Resistance		
	Good Flexibility		
	Good Flow		
	Good Toughness		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	62.1	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	360	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	21	J/m	
23°C	190	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	152	°C	
1.8 MPa, Unannealed	55.6	°C	
Injection	Nominal Value	Unit	
Processing (Melt) Temp	232 to 243	°C	

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Recommended distributors for this material

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

