Nylene® 454

Polyamide 6

Custom Resins Group

Message:

Heat stabilized version of NYLENE 451 recommended for molding - Exceptional fatigue and wear resistance insure long product life to gears, bearings, cams, fasteners, and other load bearing parts

Chemically resists oil and grease

Optimum processing conditions should provide a melt temperature of 460°F-480°F at the nozzle

General Information			
UL YellowCard	E40081-231516		
Additive	Heat Stabilizer		
Features	Durable		
	Fatigue Resistant		
	Good Toughness		
	Good Wear Resistance		
	Grease Resistant		
	Heat Stabilized		
Uses	Bearings		
	Cams		
	Fasteners		
	Gears		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm³	ASTM D792
Molding Shrinkage - Flow	1.2	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	82.7	МРа	ASTM D638
Tensile Elongation (Break, 23°C)	70	%	ASTM D638
Flexural Modulus (23°C)	2690	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	21	J/m	
23°C	37	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	175	°C	
1.8 MPa, Unannealed	75.0	°C	

Peak Melting Temperature	216	°C	ASTM D3418
Flammability	Nominal Value		Test Method
Flame Rating (1.47 mm)	V-2		UL 94
Injection	Nominal Value	Unit	
Processing (Melt) Temp	238 to 249	°C	

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