

# Nycal™ 2050H Bk-7

Polyamide 612  
Technical Polymers, LLC

Message:

Nycal™The 2050H Bk-7 is a polyamide 612 (nylon 6/12) material. This product is available in North America and is processed by injection molding.  
Nycal™The main features of the 2050H Bk-7 are:  
flame retardant/rated flame  
good weather resistance  
heat stabilizer

General Information			
Additive	heat stabilizer		
Features	Good weather resistance		
	Thermal Stability		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm <sup>3</sup>	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	62.1	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	15	%	ASTM D638
Flexural Modulus (23°C)	2240	MPa	ASTM D790
Flexural Strength (23°C)	75.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	37	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	160	°C	ASTM D648
1.8 MPa, not annealed	60.0	°C	ASTM D648
Melting Temperature	218	°C	DSC
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+13	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Additional Information			
Tensile Elongation, ASTM D638: >15%Volum Resistivity, ASTM D257: >1e13 ohm-cm			
Injection	Nominal Value	Unit	
Drying Temperature	73.9 - 79.4	°C	
Drying Time	2.0 - 4.0	hr	

Processing (Melt) Temp	232 - 288	°C
Mold Temperature	48.9 - 93.3	°C
Injection Rate	Moderate-Fast	
Back Pressure	0.103 - 0.689	MPa
Screw Speed	100	rpm
Clamp Tonnage	3.4 - 5.5	kN/cm <sup>2</sup>
Cushion	3.18 - 12.7	mm
Screw L/D Ratio	20.0:1.0	
Screw Compression Ratio	2.5:1.0	

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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

