Aegis® H8202NLB

Polyamide 6

Honeywell

Message:

Aegis® H8202NLB is an unfilled, low/medium viscosity, non-lubricated nylon 6 injection molding homopolymer exhibiting excellent melt fluidity for filling thin sections. It exhibits good strength, stiffness, and toughness as well as excellent heat, chemical and abrasion resistance.

General Information			
Features	Good Abrasion Resistance		
	Good Chemical Resistance		
	Good Flow		
	Good Stiffness		
	Good Strength		
	Good Toughness		
	High Heat Resistance		
	Homopolymer		
	Medium Viscosity		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.13	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (235°C/1.0 kg)	9.8	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.3	%	ASTM D955
Water Absorption			ASTM D570
24 hr	1.6	%	
Saturation	9.5	%	
Equilibrium	2.7	%	
Extractables [1]	< 0.8	%	Internal Method
Moisture Content	< 0.10	%	ASTM D6869
Relative Viscosity - @ 96% SAV	2.61		
Viscosity - FAV	46.0 to 52.0		ASTM D789
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	119		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	2850	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	79.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, 23°C	4.0	%	
Break, 23°C	55	%	

Flexural Modulus (23°C)	3010	MPa	ASTM D790
Flexural Strength (23°C)	110	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-40°C	50	J/m	
23°C	60	J/m	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	178	°C	
1.8 MPa, Unannealed	65.0	°C	
Melting Temperature	220	°C	ASTM D3418
CLTE - Flow	8.3E-5	cm/cm/°C	ASTM E831
Injection	**Nominal Value**	**Unit**	
Drying Temperature	80.0	°C	
Processing (Melt) Temp	240 to 280	°C	
Mold Temperature	80.0 to 95.0	°C	
Injection Pressure	3.45 to 10.3	MPa	
NOTE			
1.	Test Method: SOP-702-307		

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

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