Aegis® H35ZI

Polyamide 6

Honeywell

Message:

Aegis® H35ZI is an unfilled, low viscosity, non-lubricated nylon 6 injection molding homopolymer exhibiting excellent melt flow properties for filling thin sections and reduced cycle times. It exhibits good strength, stiffness, and toughness as well as excellent heat, chemical and abrasion resistance.

General Information			
Features	Low viscosity		
	Rigid, good		
	Homopolymer		
	Good strength		
	Good wear resistance		
	Good chemical resistance		
	Heat resistance, high		
	Good toughness		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.12	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (235°C/1.0 kg)	23	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.3	%	ASTM D955
Water Absorption			ASTM D570
24 hr	1.6	%	ASTM D570
Saturation	9.5	%	ASTM D570
Balance, 50% RH	2.7	%	ASTM D570
Moisture Content		%	ASTM D6869
Relative viscosity-@ 96% SAV	2.34		
Viscosity-FAV	33.0 - 39.0		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)	2750	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	79.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, 23°C	4.1	%	ASTM D638
Fracture, 23°C	75	%	ASTM D638
Flexural Modulus (23°C)	2470	MPa	ASTM D790
Flexural Strength (23°C)	96.0	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	45	J/m	ASTM D256
23°C	46	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	152	°C	ASTM D648
1.8 MPa, not annealed	47.0	°C	ASTM D648
Melting Temperature	222	°C	
CLTE - Flow	7.2E-5	cm/cm/°C	ASTM E831
Additional Information			
Extractible Content: < 0.8 %			

Recommended distributors for this material

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