

# InnoPlus HD1600J

High Density Polyethylene

PTT Global Chemical Public Company Limited

## Message:

InnoPlus HD1100J and HD1600J are high density polyethylene injection molding grade. They are tailored with narrow molecular weight distribution (MWD) and high flow ability. They have optimum strength property which used for general part, auto part, toy and house ware.

Typical Application: Toys, Auto parts, Household products

General Information			
Features	Food Contact Acceptable		
	Good Strength		
	High Flow		
	Narrow Molecular Weight Distribution		
Uses	Automotive Applications		
	General Purpose		
	Household Goods		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.958	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	12	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (25% Igepal, F50)	5.00	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	64		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	27.5	MPa	
Break	19.6	MPa	
Tensile Elongation (Break)	210	%	ASTM D638
Apparent Bending Modulus	883	MPa	ASTM D747
Flexural Modulus	1320	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact <sup>1</sup>	29	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Vicat Softening Temperature	118	°C	ASTM D1525 <sup>2</sup>
Peak Melting Temperature	129	°C	ASTM D3418
Injection	Nominal Value	Unit	
Rear Temperature	165 to 190	°C	
Middle Temperature	165 to 190	°C	
Front Temperature	165 to 190	°C	
Nozzle Temperature	180 to 195	°C	
NOTE			
1.	Complete break		
2.	Rate A (50°C/h), Loading 1 (10 N)		

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### 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

