INEOS PP H44N-00

Polypropylene Homopolymer

INEOS Olefins & Polymers USA

Message:

H44N-00 is a high flow rate, nucleated polypropylene homopolymer designed for compounding and injection molding applications. The grade benefits from a high stiffness and isotropic shrinkage to help reduce warping in flat, thin parts.

General Information	
Additive	Nucleating Agent
Features	High Flow
	High Stiffness
	Homopolymer
	Nucleated
Uses	Compounding
Agency Ratings	EC 1907/2006 (REACH)
Forms	Pellets
Processing Method	Compounding
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.911	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	47	g/10 min	ASTM D1238

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	107		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength [1]			ASTM D638
Yield	37.2	MPa	
Break	26.2	MPa	
Tensile Elongation [2]			ASTM D638
Yield	9.0	%	
Break	25	%	
Flexural Modulus - 1% Secant	1690	MPa	ASTM D790A

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	21	J/m	ASTM D256
Notched Izod Impact (Area) (23°C)	2.40	kJ/m²	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	113	°C	ASTM D648

Optical	Nominal Value	Unit	Test Method

Gloss (60°)	93		ASTM D2457
Haze [3] (1270 µm)	76	%	ASTM D1003
NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	23°C		

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