

Hanwha Total PP BI300

High Crystallinity Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

BI300 is a high isotactic Block Copolymer which has higher crystallinity, compared to general PP. Due to high crystalline nature & optimum rubber design, BI300 has an excellent property balance between high stiffness and impact strength. Films made from this grade provide high heat resistance and superior mechanical strength, thus this grade is highly suited to retort pouch film application.

General Information			
UL YellowCard	E140331-222882		
Features	Block Copolymer		
	Good dimensional stability		
	Rigidity, high		
	High strength		
	Good disinfection		
	m-benzene dimethyl		
	Crystallization		
	Impact resistance, high		
	Low temperature impact resistance		
	High pressure heating resistance		
	Heat resistance, high		
	Excellent appearance		
Uses	Films		
	Food packaging		
	Medical/nursing supplies		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	81		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break)	23.5	MPa	ASTM D638
Tensile Elongation ² (Break)	500	%	ASTM D638
Flexural Modulus ³	1470	MPa	ASTM D790
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	60	μm	
Tensile Strength			ASTM D882

MD: Yield, 60 µm	22.6	MPa	ASTM D882
TD: Yield, 60 µm	20.6	MPa	ASTM D882
MD: Break, 60 µm	53.0	MPa	ASTM D882
TD: Break, 60 µm	36.3	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 60 µm	700	%	ASTM D882
TD: Break, 60 µm	700	%	ASTM D882
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
0°C	29	J/m	ASTM D256
5°C	39	J/m	ASTM D256
23°C	64	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	110	°C	ASTM D648
Vicat Softening Temperature	155	°C	ASTM D1525 ⁴
Melting Temperature	163	°C	
Optical	Nominal Value	Unit	Test Method
Haze (60.0 µm)	28	%	ASTM D1003
Additional Information			
Izod Impact Strength, ASTM D3420: 3000 kg-cm/cm			
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	压力1 (10N)		

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