

Braskem America Inc. - Polypropylene Homopolymer

Wednesday, October 9, 2019

General Information

Product Description

High bulk

Applications

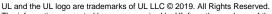
Suggested uses include fine denier staple fiber, high speed fiber spinning

General			
Material Status	Commercial: Active		
Availability	 North America 		
Uses	 Fibers 	Staple Fibers	
Agency Ratings	• FDA 21 CFR 177.1520		
Processing Method	Fiber (Spinning) Extrusion		

ASTM & ISO Properties 1				
Physical	Nominal Value	Unit	Test Method	
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	14	g/10 min	ASTM D1238	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Strength ² (Yield)	37.2	MPa	ASTM D638	
Tensile Elongation ² (Yield)	9.0	%	ASTM D638	
Flexural Modulus - 1% Secant ³	1520	MPa	ASTM D790A	
Impact	Nominal Value	Unit	Test Method	
Notched Izod Impact (23°C)	27	J/m	ASTM D256A	
Hardness	Nominal Value	Unit	Test Method	
Rockwell Hardness (R-Scale)	105		ASTM D785	
Additional Information	Nominal Value	Unit	Test Method	
Elongation of Fibers ⁴	45	%	ASTM D2256	
Suggested Takeup Roll Speed	41.7	m/sec	Internal Method	
Tenacity of Fibers ⁴	3.10	g/denier	ASTM D2256	

Notes





¹ Typical properties: these are not to be construed as specifications.

² 51 mm/min

³ 1.3 mm/min

⁴ 3.3 draw ratio, 1250 m/min roll speed, 225°C spin temperature