

Sumitomo PP FY4012E

Polypropylene Homopolymer

Sumitomo Chemical Asia

Message:

Applications For woven bags/cloth, woven fiber, carpet backing, binding tape, and monofilament.
Characteristics Excellent denier strength, low heat shrinkage and easy processability.

General Information			
Features	Good Processability		
	High Strength		
	Homopolymer		
	Low Shrinkage		
Uses	Carpet Backing		
	Fibers		
	Monofilaments		
	Tape		
	Textile Applications		
	Yarn		
Agency Ratings	EU 2002/72/EC		
	EU 2004/19/EC		
	FDA 21 CFR 177.1520(c) 1.1a		
Forms	Pellets		
Processing Method	Filament Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm ³	ASTM D792A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness	99		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	32.0	MPa	
Break	18.0	MPa	
Tensile Elongation			ASTM D638
Yield	9.0	%	
Break	110	%	
Flexural Modulus	1300	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact Strength (23°C)	3.0	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	152	°C	ASTM D1525 ¹
Additional Information	Nominal Value	Unit	
Stretching Ratio	4 to 6		
Stretching Temperature	155	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	250	°C	
NOTE			
1.	Rate B (120°C/h), Loading 2 (50 N)		

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