

Moplen HP552R

Polypropylene Homopolymer

LyondellBasell Industries

Message:

Moplen HP552R is a high melt flow homo-polymer polypropylene for the production of CF, BCF and staple fibres at medium to high spinning speeds. Moplen HP552R with an excellent anti-gas fading package offers a high homogeneity, stable extrusion and excellent process ability on both short and long spinning lines. This grade allows a high stretch ratio and gives tough and resilient fibres. Moplen HP552R is suitable for low denier staple fibres for non-woven fabrics, diapers, medical-sanitary applications and wipes. Another typical application is high tenacity continues filament for straps for backpacks, handles for big and safety belts. Continues filament with medium tenacity is used for upholstery, sportswear and heavy duty clothing. Moplen HP552R is also suited for the production of bulked continues filament for thermo bonding and carpets.

* Moplen HP552R is suitable for food contact.

General Information			
Features	Homopolymer		
	Resistance to gas fading		
	Workability, good		
	Good stretchability		
	High liquidity		
	Good toughness		
	Compliance of Food Exposure		
	Elastic		
Uses	BCF line		
	Conveyor belt repair		
	Carpet backing		
	staple fiber		
	Textile applications		
	Belt material		
	Sporting goods		
	Bathroom products		
	Non-woven fabric		
	Filament		
	Fiber		
	Medical/nursing supplies		
	Fabric		
Processing Method	Filament power winding		
	Fiber (spinning) extrusion		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	25	g/10 min	ASTM D1238

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	32.0	MPa	ASTM D638
Tensile Elongation (Yield)	13	%	ASTM D638
Flexural Modulus	1500	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	30	J/m	ASTM D256
Aging	Nominal Value	Unit	Test Method
Oven Aging (150°C)	6.3	day	ASTM D3012
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	94.0	°C	ASTM D648
Vicat Softening Temperature	152	°C	ASTM D1525 ¹
NOTE			

1. 压力1 (10N)

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