

Stretchene RP1903

Polypropylene Random Copolymer
LyondellBasell Industries

Message:

"Stretchene" RP1903 is a random copolymer, suitable for injection stretch blow moulding (ISBM) applications. The product features very good transparency and gloss.
"Stretchene" RP1903 is commonly used in packaging of detergents, cosmetics and others where ISBM bottles are used as the packaging.

General Information			
Additive	Nucleating Agent		
Features	Detergent Resistant		
	Food Contact Acceptable		
	Good Chemical Resistance		
	Good Impact Resistance		
	High Clarity		
	Nucleated		
	Random Copolymer		
Uses	Consumer Applications		
	Cosmetic Packaging		
	Household Goods		
	Packaging		
Appearance	Clear/Transparent		
Processing Method	Injection Blow Molding		
	Stretch Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	11	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	15.0	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	58.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1100	MPa	ISO 527-2
Tensile Stress (Yield)	30.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	14	%	
Break	> 50	%	

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
0°C	2.0	kJ/m ²	
23°C	6.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
0°C	100	kJ/m ²	
23°C	200	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	72.0	°C	ISO 75-2/B
Optical	Nominal Value	Unit	Test Method
Haze			ASTM D1003
400 μm ¹	< 3.0	%	
1000 μm, Injection Molded ²	9.0	%	
NOTE			
1.	.4 mm blown bottle wall		
2.	1mm disk		

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