

Braskem RP 344 RACO Random Polypropylene Copolymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer

Material Notes:

RP 344 is a medium melt flow rate random copolymer. It is suitable for blown and cast film extrusion and features good processability, excellent optical properties, and outstanding sealability. Its applications include: flexible packages with excellent gloss, transparency, and sealing properties for general purpose; and food and textile packaging.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-RP-344-RACO-Random-Polypropylene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.902 g/cc	0.0326 lb/in ³	ASTM-D792
Melt Flow	9.0 g/10 min @Load 2.16 kg, Temperature 230 °C	9.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	76	76	ASTM-D785
Film Tensile Strength at Yield, MD	19.0 MPa	2760 psi	ASTM-D882
Film Tensile Strength at Yield, TD	19.0 MPa	2760 psi	ASTM-D882
Tensile Strength, Yield	27.0 MPa	3920 psi	ASTM-D638
Film Elongation at Yield, MD	17 %	17 %	ASTM-D882
Film Elongation at Yield, TD	18 %	18 %	ASTM-D882
Elongation at Yield	12 %	12 %	ASTM-D638
Flexural Modulus	0.800 GPa	116 ksi	ASTM-D790
Izod Impact, Notched	0.190 J/cm @Temperature -20.0 °C	0.356 ft-lb/in @Temperature -4.00 °F	ASTM-D256
	0.330 J/cm @Temperature 23.0 °C	0.618 ft-lb/in @Temperature 73.4 °F	ASTM-D256
1% Secant Modulus, MD	370 MPa	53700 psi	ASTM-D882
1% Secant Modulus, TD	360 MPa	52200 psi	ASTM-D882
Heat Seal Strength Initiation Temperature	110 °C	230 °F	Braskem Method

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	86.0 °C	187 °F	ASTM-D648
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °F	ASTM-D648
Vicat Softening Point	130 °C @Load 1.02 kg	266 °F @Load 2.25 lb	ASTM-D1525

Optical Properties	Metric	English	Comments
Haze	0.80 %	0.80 %	ASTM-D1003
Gloss	98 %	98 %	Angle 45°; ASTM-D2457

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