

Braskem PE AC 59

High Density Polyethylene

Braskem

Message:

Description:
AC59 resin is a High Density Polyethylene, homopolymer, produced by solution process, designed for monofilament applications. It contains antioxidant additives.

Application:
Film extrusion; monofilament; raffia; raschel; nets; oriented structures; general use.

Process:
The optimum processing conditions vary with the type of equipment used in the production:
cast film - typical temperature profile: 170 to 220°C.
blown film - typical temperature profile: 170 to 220°C.
monofilament - typical temperature profile: 170 to 220°C.

General Information	
Additive	Antioxidant
Features	Antioxidant
	Homopolymer
	Narrow Molecular Weight Distribution
Uses	Bags
	Film
	Monofilaments
Agency Ratings	FDA 21 CFR 177.1520
Forms	Pellets
Processing Method	Extrusion
	Film Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.960	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.75	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	59		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, Compression Molded	28.0	MPa	
Break, Compression Molded	35.0	MPa	
Tensile Elongation			ASTM D638
Yield, Compression Molded	11	%	
Break, Compression Molded	2000	%	

Flexural Modulus - 1% Secant (Compression Molded)	1180	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	180	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	72.0	°C	ASTM D648
Vicat Softening Temperature	127	°C	ASTM D1525 ¹
Extrusion	Nominal Value	Unit	
Melt Temperature	170 to 220	°C	
NOTE			
1.	Loading 1 (10 N)		

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