

Queo™ 8203

Ethylene-based Plastomer

Borealis AG

Message:

Queo™ 8203 is an ethylene based octene plastomer produced in a solution polymerisation process using a metallocene catalyst.

Supplied as free flowing pellets, Queo 8203 is designed to offer:

Favourable melt strength - processability balance.

Flexibility

Outstanding toughness and puncture resistance

Low temperature flex-cracking and impact resistance

Low dielectric constant and dissipation factor

High clarity

High filler and oil acceptance

Excellent polyolefin compatibility

Applications:

Demonstrated applications include :

Impact modification of PP

Roof coverings

Tunnel linings

Flexible low voltage insulation

Halogen free flame retardant compounds

Blow moulded articles

Soft foams

High strength flexible films

Specialty stretch film applications

Additives:

Queo 8203 contains processing stabilizers.

General Information	
Additive	Impact Modifier
	Unspecified Stabilizer
Features	Flame Retardant
	Good Melt Strength
	Good Processability
	Good Toughness
	Halogen Free
	High Clarity
	Low Temperature Flexibility
	Low Temperature Impact Resistance
	Puncture Resistant
Uses	Compounding
	Film
	Foam
Forms	Pellets

Processing Method	Blown Film		
Physical	Nominal Value	Unit	Test Method
Density	0.882	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.0	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance	> 1000	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A	85		
Shore D	< 30		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	22.0	MPa	ISO 527-2/5A
Tensile Strain (Break)	820	%	ISO 527-2/5A
Flexural Modulus	24.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	No Break		ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.0	°C	ASTM D746
Vicat Softening Temperature	50.0	°C	ISO 306/A
Melting Temperature (DSC)	74.0	°C	ISO 11357

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