

Queo™ 8201

Ethylene-based Plastomer

Borealis AG

Message:

Queo™ 8201 is an ethylene based octene plastomer produced in a solution polymerisation process using a metallocene catalyst.

Bridging plastic and elastomeric properties, showing excellent polyolefin compatibility and supplied as free flowing pellets, Queo 8201 is a versatile blend partner for other polyolefins, offering :

Flexibility

Outstanding toughness, puncture resistance

Low temperature impact strength

Low dielectric constant and dissipation factor

High filler and oil acceptance

Excellent polyolefin compatibility

High clarity

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 8201 contains processing stabilizers.

General Information			
Additive	Impact Modifier		
	Unspecified Stabilizer		
Features	Flame Retardant		
	Good Flexibility		
	Good Toughness		
	Halogen Free		
	High Clarity		
	Low Temperature Impact Resistance		
	Puncture Resistant		
Uses	Compounding		
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)	1.1	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)	23.0	MPa	ISO 527-2/5A
Tensile Strain (Break)	750	%	ISO 527-2/5A
Flexural Modulus	23.0	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)	73.0	°C	ISO 11357

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