

# Queo™ 0201

Ethylene-based Plastomer

Borealis AG

## Message:

Queo™ 0201 is an ethylene based octene plastomer produced in a solution polymerisation process using a metallocene catalyst.

Queo 0201 is a versatile blend partner for other polyolefins in film, extrusion and moulding applications, offering :

Unrivalled sealing properties

Outstanding toughness, puncture resistance and low temperature impact strength

Excellent polyolefin compatibility

Flexibility

Excellent environmental stress cracking resistance

Low amount of extractables

High clarity

Applications:

Demonstrated applications include :

Seal layers in lamination and flexible barrier films

High strength flexible films

Heat shrinkable display film

Specialty stretch film applications

PP film toughness modification

Roof coverings

Tunnel linings

Flexible low voltage insulation

Halogen free flame retardant compounds

Blow moulded articles

Soft foams

Additives:

Queo 0201 contains processing stabilizers.

General Information			
Additive	Unspecified Stabilizer		
Features	Flame Retardant		
	Good Flexibility		
	Good Heat Shrinkability		
	Good Toughness		
	Halogen Free		
	High Clarity		
	High ESCR (Stress Crack Resist.)		
	High Strength		
	Low Temperature Impact Resistance		
Uses	Film		
	Foam		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.902	g/cm <sup>3</sup>	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 (Shore D)	43		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	36.0	MPa	ISO 527-2/5A
Tensile Strain (Break)	720	%	ISO 527-2/5A
Flexural Modulus	72.0	MPa	ISO 178
Films	Nominal Value	Unit	Test Method
Secant Modulus - MD	65.0	MPa	ASTM D882
Dart Drop Impact (Blown Film)	> 48	g	ASTM D1709
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	82.0	°C	ISO 306/A
Melting Temperature (DSC)	97.0	°C	ISO 11357
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	84		ASTM D2457
Haze	2.0	%	ASTM D1003A
Additional Information	Nominal Value	Unit	Test Method
Puncture Resistance	28.0	J/cm	Internal Method
Sealing Initial Temperature	78	°C	ASTM F88

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