Queo™ 1001

Ethylene-based Plastomer

Borealis AG

Message:

Queo™ 1001 is an ethylene based octene plastomer produced using a metallocene catalyst in a solution polymerisation process.
Queo 1001 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
Flexible low voltage insulation
Blow moulded articles
Flexible automotive boots and bellows
Soft foams
Additives:
Queo 1001 contains processing stabilizers.

General Information	
Additive	Unspecified Stabilizer
Features	Good Flexibility Good Toughness High Clarity High ESCR (Stress Crack Resist.) High Strength Low Temperature Impact Resistance Puncture Resistant
Uses	Automotive Applications Foam Seals
Processing Method	Blown Film Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm³	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)	49		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Break)	35.0	MPa	ISO 527-2/5A
Tensile Strain (Break)	750	%	ISO 527-2/5A
Flexural Modulus	132	MPa	ISO 178
Films	**Nominal Value**	**Unit**	**Test Method**
Secant Modulus - MD	90.0	MPa	ASTM D882
Dart Drop Impact (Blown Film)	> 22	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	93.0	°C	ISO 306/A
Melting Temperature (DSC)	106	°C	ISO 11357
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°)	81		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	87	°C	ASTM F88

Recommended distributors for this material

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