

EXACT 0203

Octene-1 Plastomer

DATA SHEET

Description and Attributes

EXACT® 0203 is an ethylene based octene plastomer produced using a metallocene catalyst in a solution polymerisation process.

EXACT 0203 is a versatile blend partner for other polyolefins in cast film, extrusion and moulding applications, offering :

- Unrivalled sealing properties
- Outstanding toughness, puncture resistance and low temperature impact strength
- Excellent polyolefin compatibility
- Flexibility
- High clarity

Applications

Demonstrated applications include :

- Seal layers in lamination and flexible barrier films
- Specialty cast stretch applications
- PP film toughness modification
- Lap sealing to OPP
- Halogen free flame retardant compounds
- High clarity household articles
- Soft foams

General properties	Units	Typical values [1]	Method
Melt Flow Rate (2.16 kg/190°C)	dg/min	3.0	ISO 1133
Density (23°C)	kg/m ³	902	ISO 1183
Shore D hardness	--	41	ISO 868
DSC peak melting point	°C	95	ASTM D3418
DSC heat of fusion	J/g	125	ASTM D3418
Vicat softening temp. (at 10 N)	°C	83	ISO 306
Brittleness temperature	°C	< -73	ASTM D746

Film properties [2]			
Gloss		80	ASTM 2457 (45°)
Haze	%	3.7	ASTM D1003 (A)
1% Secant modulus (MD/TD)	MPa	65/65	ISO 1184(F)
Seal initiation temperature	°C	85	Internal method
Puncture resistance max. tension	MPa	100	Internal method
Puncture resistance energy	MJ/mm	800	Internal method
Impact strength	g/μ	> 18	ASTM D4272

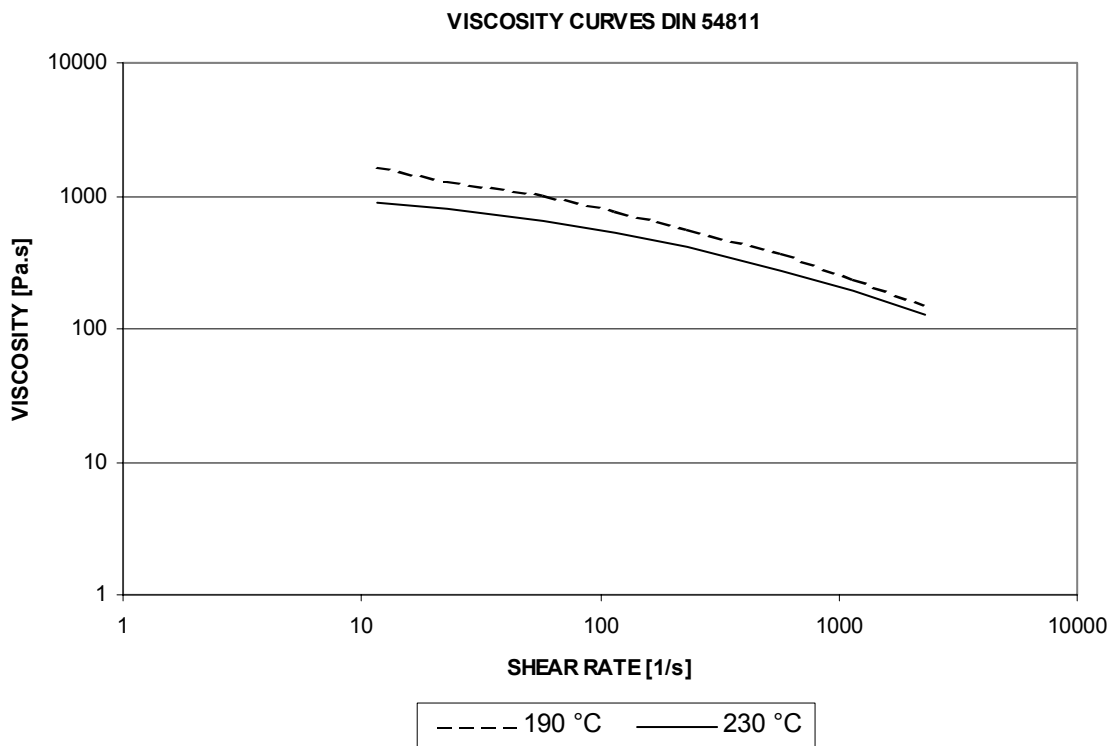
Moulded plaque properties [3]			
Tensile strength at break	MPa	30	ISO 527-2
Elongation at break	%	1700	ISO 527-2
Flexural modulus	MPa	70	ISO 178
Notched Izod @ 23°C and @ -40 °C	J/m	No break	ASTM D256
Environmental stress crack resistance	hr	> 1000	ASTM D1693

[1] Values are typical and not to be interpreted as specifications.

[2] Specifics of 40 μm film.

[3] Specifics of compression moulded test specimen.

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Additives

EXACT 0203 contains processing stabilizers.

Food Law Compliance and Product Handling

EXACT 0203 complies with FDA 21 CFR 177.1520 - "Olefin Polymers" - (C) 3.2a.

More detailed and specific information on food law compliance and material safety aspects of EXACT grades will be provided upon request.

Packaging

EXACT 0203 is supplied as free flowing pellets with standard package type 25 kg bags on shrinkwrapped pallets with a total weight of 1,375 kg.

Further information

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