

EXACT 8203

Octene-1 Plastomer

DATA SHEET

Description

EXACT[®] 8203 is an ethylene based octene plastomer produced in a solution polymerisation process using a metallocene catalyst.

EXACT 8203 is designed for applications requiring high flexibility, outstanding toughness, excellent low temperature flex-cracking resistance and high clarity. The material combines favourable melt strength with an excellent processability, offering important advantages for foam, wire and cable and extrusion applications. The polymer is particularly suitable for improving the impact resistance or flexibility of moulded polyolefins.

Key performance attributes

- Free flowing pellets
- 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

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	882	ISO 1183
Shore A hardness	--	85	ISO 868
Shore D hardness	--	28	ISO 868
DSC peak melting point	°C	72	ASTM D3418
DSC heat of fusion	J/g	100	ASTM D3418
Vicat softening temp. (at 10 N)	°C	51	ISO 306
Brittleness temperature	°C	< -75	ASTM D746

Film properties [2]			
Gloss		83	ASTM 2457 (45°)
Haze	%	2.4	ASTM D1003 (A)
1% Secant modulus (MD/TD)	MPa	24/24	ISO 1184(F)
Seal initiation temperature	°C	64	Internal method
Puncture resistance max. tension	MPa	100	Internal method
Puncture resistance energy	MJ/mm	1200	Internal method
Impact strength	g/μ	> 16	ASTM D4272

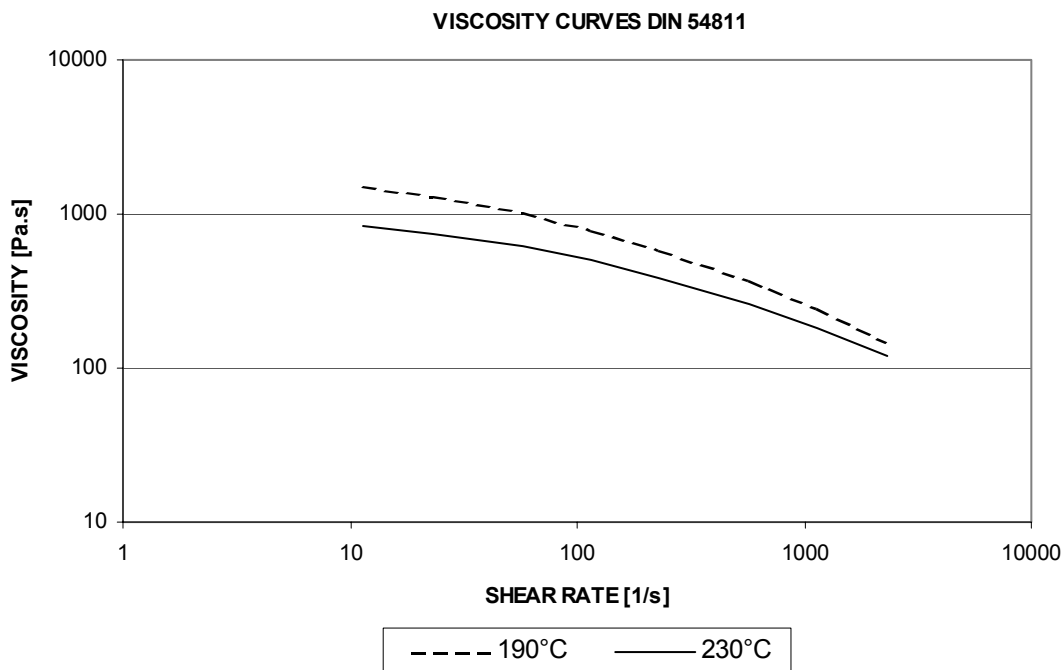
Moulded plaque properties [3]			
Tensile strength at break	MPa	22	ISO 527-2
Elongation at break	%	2000	ISO 527-2
Flexural modulus	MPa	28	ISO 178
Notched Izod @ 23°C and @ -40 °C	J/m	No break	ASTM D256
Environmental stress crack resistance	hr	> 1000	ASTM D1693

Elastomeric properties			
Mooney Viscosity ML (1+4) @ 125°C	Torque units	9.5	ASTM D1646

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

[2] Specifics of 40 μm film.

[3] Specifics of compression moulded test specimen.



Additives

EXACT 8203 contains processing stabilizers.

Food Law Compliance and Product Handling

EXACT 8203 complies with FDA 21 CFR 177.1520 - "Olefin Polymers" - (C) 3.2c
More detailed and specific information on food law compliance and material safety aspects of EXACT grades will be provided upon request.

Packaging

EXACT 8203 is supplied as free flowing pellets with standard package type 25 kg bags on shrink wrapped pallets with a total weight of 1,375 kg.

Further information

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March 2002