

EXACT 8201

Octene-1 Plastomer

DATA SHEET

Description and Attributes

EXACT® 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, EXACT 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

General properties	Units	Typical values [1]	Method
Melt Flow Rate (2.16 kg/190°C)	dg/min	1.1	ISO 1133
Density (23°C)	kg/m ³	882	ISO 1183
Shore A hardness	--	85	ISO 868
Shore D hardness	--	29	ISO 868
DSC peak melting point	°C	70	ASTM D3418
DSC heat of fusion	J/g	105	ASTM D3418
Vicat softening temp. (at 10 N)	°C	55	ISO 306
Brittleness temperature	°C	< -75	ASTM D746

Film properties [2]			
Gloss		84	ASTM 2457 (45°)
Haze	%	2.2	ASTM D1003 (A)
1% Secant modulus (MD/TD)	MPa	24/25	ISO 1184(F)
Seal initiation temperature	°C	66	Internal method
Puncture resistance max. tension	MPa	125	Internal method
Puncture resistance energy	MJ/mm	1500	Internal method
Impact strength	g/μ	> 18	ASTM D4272

Moulded plaque properties [3]			
Tensile strength at break	MPa	24	ISO 527-2
Elongation at break	%	1750	ISO 527-2
Flexural modulus	MPa	30	ISO 178
Notched Izod @ 23°C and @ -40 °C	J/m	No break	ASTM D256
Environmental stress crack resistance	hr	> 1000	ASTM D1693

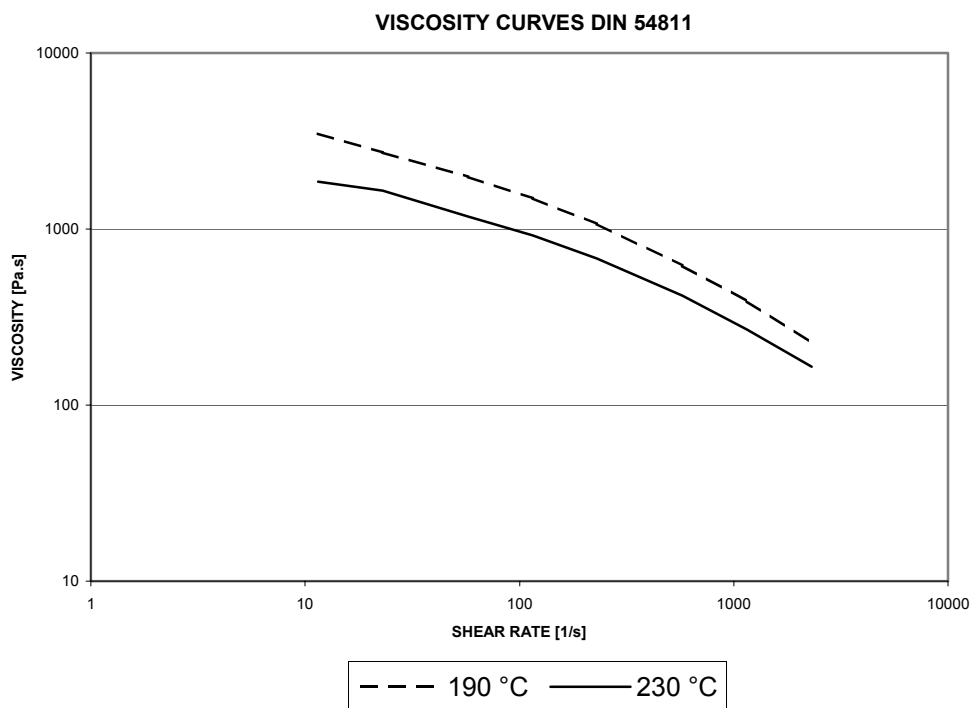
Elastomeric properties			
Mooney Viscosity ML (1+4) @ 125°C	Torque units	16.5	ASTM D1646

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

[2] Specifics of 40 μm film.

[3] Specifics of compression moulded test specimen.

EXACT 8201



Additives

EXACT 8201 contains processing stabilizers.

Food Law Compliance and Product Handling

EXACT 8201 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 8201 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

DEX-PLASTOMERS V.O.F.
CBS-weg 2
P.O. Box 6500
6401 JH HEERLEN
The Netherlands

Tel. +31 45 5782401
Fax +31 45 5782405

March 2002