

Moplen D50S

Polypropylene Homopolymer
Shazand (Arak) Petrochemical Corporation

Message:

Moplen D50S is a homo-polymer with a high molecular weight and outstanding mechanical properties. The product shows excellent process ability in extrusion applications and exhibits excellent long-term heat aging resistance.

Moplen D50S is well suited for technical extrusion applications that require both high stiffness and high impact resistance.

Typical applications include the extrusion of thick, heavy sheet for industrial applications, strapping, tubes, profiles and pipes.

Moplen D50S is also used for the extrusion of thin sheet for thermoforming dairy tubs and other food packaging.

Extrusion blow moulded small containers and technical parts are other typical applications of Moplen D50S.

Moplen D50S is also appropriate for injection moulding wheels, fittings and high performance industrial components.

* Moplen D50S is suitable for food contact.

General Information			
Features	Food Contact Acceptable		
	Good Heat Aging Resistance		
	Good Processability		
	High Impact Resistance		
	High Molecular Weight		
	High Stiffness		
	Homopolymer		
Uses	Containers		
	Engineering Parts		
	Fittings		
	Industrial Applications		
	Piping		
	Profiles		
	Sheet		
	Strapping		
Processing Method	Extrusion		
	Injection Molding		
	Profile Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.30	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	82		ASTM D785
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength (Yield)	33.0	MPa	ASTM D638
Tensile Elongation (Yield)	13	%	ASTM D638
Flexural Modulus	1400	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	110	J/m	ASTM D256
Aging	Nominal Value	Unit	Test Method
Oven Aging (150°C)	2.1	month	ASTM D3012
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	90.0	°C	ASTM D648
Vicat Softening Temperature	152	°C	ASTM D1525 ¹
NOTE			

1. Loading 1 (10 N)

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