

# Flexirene® MS 40 DA

Linear Low Density Polyethylene

Versalis S.p.A.

## Message:

Flexirene MS 40 DA is a linear low density polyethylene (LLDPE) with antioxidants, suitable for injection moulding application. Parts made by Flexirene MS 40 DA are characterised by a good balance between impact resistance and rigidity. Flexirene MS 40 DA is highly pure and it is suitable for all applications where good organoleptic properties are required.

### Main Application

Flexirene MS 40 DA is recommended for the production of caps, closures, large sized articles, houseware and toys.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Food Contact Acceptable		
	Good Impact Resistance		
	Good Organoleptic Properties		
	High Purity		
	Low Density		
	Medium Rigidity		
Uses	Caps		
	Closures		
	Household Goods		
	Toys		
Agency Ratings	EU Food Contact, Unspecified Rating		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.930	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	27	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Injection Molded)	52		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield, Injection Molded	11.0	MPa	
Break, Injection Molded	12.0	MPa	
Tensile Strain (Break, Injection Molded)	> 500	%	ISO 527-2
Flexural Modulus (Injection Molded)	300	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method

Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	103	°C	ISO 306/A
Melting Temperature	121	°C	Internal Method
Injection	Nominal Value	Unit	
Rear Temperature	160 to 210	°C	
Middle Temperature	160 to 210	°C	
Front Temperature	160 to 210	°C	
Mold Temperature	10.0 to 40.0	°C	

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#### Recommended distributors for this material

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