

Greenflex® ML 50

Ethylene Vinyl Acetate Copolymer

Versalis S.p.A.

Message:

Greenflex ML 50 is an ethylene vinyl acetate copolymer (EVA) for injection moulding, compounding and extrusion.

Main Application

Greenflex ML 50 is recommended for the production of foamed and crosslinked sheets for shoes, dolls, shock absorbers and gasket.

General Information			
Features	Copolymer		
	Crosslinkable		
	Foamable		
	Food Contact Acceptable		
Uses	Compounding		
	Foam		
	Footwear		
	Gaskets		
	Sheet		
	Toys		
Agency Ratings	EU Food Contact, Unspecified Rating		
Forms	Pellets		
Processing Method	Compounding		
	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.941	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.5	g/10 min	ISO 1133
Vinyl Acetate Content	19.0	wt%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, Injection Molded	89		
Shore D, Injection Molded	36		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, Injection Molded)	4.50	MPa	ISO 527-2
Flexural Modulus (Injection Molded)	40.0	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -80.0	°C	ASTM D746

Vicat Softening Temperature	58.0	°C	ISO 306/A
Melting Temperature	83.0	°C	Internal Method
Injection	Nominal Value	Unit	
Processing (Melt) Temp	140 to 200	°C	
Mold Temperature	10.0 to 30.0	°C	

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