

CERTENE™ EDI-240

Ethylene Vinyl Acetate Copolymer
Muehlstein

Message:

EDI-240 is a certified prime grade 19 % VINYL ACETATE-ETHYLENE copolymer designed for specialized molding applications requiring excellent toughness, resilience and strength properties. EDI-240 features high molecular weight, high melt viscosity, good processability, crosslinkability, and easy foamability. Molded parts exhibit high impact strength, exceptional resistance to low temperature brittleness, high elasticity, and outstanding sealability. EDI-240 applications include tough, lightweight, scuff resistant athletic footwear wedges, midsoles and outsoles, flexible tubing and hose, automotive parts, sportive articles and as blend component for property improvement with PE, PP, SBR, and other polymers. EDI-240 complies with FDA regulation 21CFR 177.1350 (a) + (b) concerning Ethylene-Vinyl Acetate copolymers use in contact with food articles, subject to restrictions: 1) may not be used for contact with food containing more than 0.5% alcohol, and: 2) may not be used in materials for food packaging exceeding 10 mils (250 µ) thickness.

General Information			
Features	Copolymer		
	Crosslinkable		
	Foamable		
	Good Processability		
	Good Stiffness		
	Good Strength		
	Good Toughness		
	High Elasticity		
	High Impact Resistance		
	High Molecular Weight		
	High Viscosity		
	Resilient		
Uses	Automotive Applications		
	Footwear		
	Hose		
	Sporting Goods		
	Tubing		
Agency Ratings	FDA 21 CFR 177.1350 (a) + (b)		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	0.940	g/cm ³	ASTM D150
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield, Compression Molded	4.83	MPa	
Break, Compression Molded	15.2	MPa	

Tensile Elongation (Break, Compression Molded)	> 800	%	ASTM D638
Flexural Modulus - 1% Secant ² (Compression Molded)	51.7	MPa	ASTM D790
Flexural Rigidity - Compression Molded	34.5	MPa	ASTM D747
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.0	°C	ASTM D746
Vicat Softening Temperature	64.0	°C	ASTM D1525
Melting Temperature	85.0	°C	DSC
NOTE			
1.	50 mm/min		
2.	1.3 mm/min		

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