



Product Information

VESTENAMER® 8012

Rubber with unique properties

VESTENAMER 8012 is a rubber based on trans-polyoctenamer which has proved itself as a valuable processing aid.

Due to its properties, it is a versatile polymer that can be used to solve a wide variety of problems dealing with rubber compounding and processing.

The monomer feedstock of VESTENAMER is cyclooctene, which is synthesized from 1,3-butadiene via 1,5-cyclooctadiene. Cyclooctene is polymerized to polyoctenamer (TOR) in a metathesis reaction.

VESTENAMER 8012 can be used in the following applications:

- calendaring
- tire production
- batch technology
- modifications of thermoplastics
- rubber recycling

VESTENAMER 8012 is supplied as cylindrical pellets in polyethylen packaging.

For further information, please contact our experts in the department Market Development of the High Performance Polymers Business Line.

Property	Test method		Unit	VESTENAMER 8012	
	international	national			
Density	23°C	ISO 1183	DIN EN ISO 1183	g/cm ³	0.91
Tensile test		ISO 527-1	DIN EN ISO 527-1		
Stress at yield		ISO 527-2	DIN EN ISO 527-2	MPa	7.5
Strain at yield				%	25
Strain at break				%	> 50
CHARPY impact strength		ISO 179/1eU	DIN EN ISO 179/1eU		
	23°C			kJ/m ²	N ¹⁾
	-20°C			kJ/m ²	N ¹⁾
IZOD notched impact strength		ISO 180/1A	DIN EN ISO 180/1A		
	23°C			kJ/m ²	N ¹⁾
	0°C			kJ/m ²	22
	-23°C			kJ/m ²	19
Tensile impact strength		ISO 8256	DIN EN ISO 8256		
	23°C			kJ/m ²	165
	0°C			kJ/m ²	190
	-20°C			kJ/m ²	240
Melting range		ISO 11357			
DSC	2 nd heating			°C	54
Crystallinity		ISO 11357			
	23°C			%	approx.30
Glass transition temperature		ISO 11357			
	T _g			°C	- 65
Thermal decomposition	TGA	ISO 11357		°C	275
Melt volume-flow rate (MVR)		ISO 1133	DIN EN ISO 1133		
	190°C/ 2.16kg			cm ³ /10 min	18
	190°C/ 5kg			cm ³ /10 min	50
	230°C/ 2.16kg			cm ³ /10 min	28
	230°C/ 5kg			cm ³ /10 min	78
Mooney viscosity ML		DIN 53523	ASTM D 1646		
(1+4) 100°C					< 10
Molecular weight M _w		following			
	GPC	DIN 55672-1			90,000
Cis/trans ratio of double bonds	IR	SOP 0188		%	20/80
Apparent density	23°C	ISO 60	DIN EN ISO 60	g/l	560

¹⁾ N = No break

® = registered trademark

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