

STERLENE™ HMU210

Thermoplastic Polyolefin Elastomer

R&P; (Pte.) Ltd.

Message:

STERLENE™ HMU210 is a compounded mineral filled polypropylene (TPO) for injection molding, characterised by good dimensional stability and good heat resistance, suitable for automotive underhood application.

General Information			
Filler / Reinforcement	Mineral		
Features	Good Dimensional Stability		
	High Heat Resistance		
Uses	Automotive Applications		
	Automotive Under the Hood		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) ¹ (230°C/2.16 kg)	13	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	15.0	cm ³ /10min	ISO 1133
Water Absorption (23°C, 24 hr)	0.034	%	Internal Method
Ash Content ² (600°C)	20	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2850	MPa	ISO 527-2/50
Tensile Stress (Yield, 23°C)	27.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield, 23°C	6.5	%	
Break, 23°C	25	%	
Flexural Modulus ³ (23°C)	2440	MPa	ISO 178
Flexural Stress ⁴ (23°C)	47.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C, Complete Break)	4.6	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵ (1.8 MPa, Unannealed)	87.0	°C	ISO 75-2/Af
Injection	Nominal Value	Unit	
Drying Time	2.0	hr	
Processing (Melt) Temp	190 to 240	°C	
Mold Temperature	25.0 to 60.0	°C	

NOTE	
1.	Procedure B
2.	30 min
3.	2.0 mm/min
4.	2.0 mm/min
5.	85°C x 2hr anneal

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