

Borcoat™ BB108E-1199

Polypropylene Impact Copolymer

Borealis AG

Message:

Borcoat BB108E-1199, a ready made white compound, is a high molecular weight, low melt flow rate polypropylene block copolymer. As a top-coat in three component polypropylene systems, Borcoat BB108E-1199 fulfils the requirements in NFA 49-711, DIN 30678, Shell specification (DEP 31.40.30.31) and Pr EN10286 when used in combination with Borcoat BB125 or Borcoat BB127E and compatible powder epoxy and applied under sound processing conditions.

Borcoat BB108E-1199 is used in steel pipe coating as a top-coat for three component systems, UV stabilized, highly protected against thermal ageing, and designed for continuous use at high temperatures 110°C on-shore and up to 140°C for very specific off-shore projects.

General Information			
Additive	UV stabilizer		
Features	Block Copolymer		
	High molecular weight		
	Recyclable materials		
	Low liquidity		
Uses	Pipeline coating		
	Coating application		
Agency Ratings	DIN 30678		
	ISO 21809-1		
	NF A 49-711		
	Shell DEP 31.30.40.31		
Appearance	White		
Forms	Particle		
Processing Method	Extrusion coating		
Physical	Nominal Value	Unit	Test Method
Density			ISO 1183
-- ¹	0.900	g/cm ³	ISO 1183
-- ²	0.920	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.90	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	62		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	25.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	8.0	%	ISO 527-2/50
Flexural Modulus ³ (Injection Molded)	1200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength			ISO 179/1eA
-20°C	3.0	kJ/m ²	ISO 179/1eA
23°C	25	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	145	°C	ISO 306/A
Additional Information			
Fungia Resistance, ASTM G21: No GrowthBacteria Resistance, ASTM G21: No Growth			
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	200 - 220	°C	
Cylinder Zone 2 Temp.	200 - 220	°C	
Cylinder Zone 3 Temp.	200 - 220	°C	
Cylinder Zone 4 Temp.	200 - 220	°C	
Cylinder Zone 5 Temp.	200 - 220	°C	
Melt Temperature	220 - 240	°C	
Die Temperature	210 - 220	°C	
Extrusion instructions			
Head Temperature: 210 to 220°C			
NOTE			
1.	Base Resin		
2.	Compound		
3.	2.0 mm/min		

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