Moharamplast PP MP-COAT 9010

Polypropylene

Moharamplast S.A.E

Message:

A white polypropylene compound designed for coating steel pipes in oil and gas applications. Antioxidants, UV stabilizer, processing aids and other additives are added to obtain excellent long term properties and better processability ensuring protection against extreme external conditions, mechanical impacts or degradation by heat or UV irradiation. It can be used up to 115°C service temperature of the pipeline when combined with the grafted adhesive.
Safety
MP COAT-9010 is classified as no-dangerous material.
We advise you to follow our safety guidelines and recommendations in our Material Safety Data Sheet.
Typical Applications
MP COAT-9010 is designed for use in (3LPP) steel pipe coating system, suited for high temperature pipeline applications in conjunction with an epoxy primer and a polyolefin adhesive. It is mainly used for coating steel pipes in oil and gas applications and thus help in minimizing the potential for corrosion of underground steel pipes.
Specifications
MP COAT-9010 complies with the requirements of the standards DIN 30 678 and ISO 21809-1 part 1 when the product is processed using the correct extrusion practice and testing procedures.

General Information	
Additive	Antioxidant Processing Aid UV Stabilizer
Features	Antioxidant Good Impact Resistance Good Processability Good Surface Finish Good UV Resistance High Heat Resistance
Uses	Coating Applications Oil/Gas Applications Pipe Coatings
Agency Ratings	DIN 30670 ISO 21809-1 Part 1
Appearance	White
Forms	Pellets
Processing Method	Extrusion Extrusion Coating

Physical	Nominal Value	Unit	Test Method

Specific Gravity [1]	0.910	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.80	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			
--	> 5000	hr	ASTM D1693A
--	> 5000	hr	ASTM D1693B
--	> 5000	hr	ASTM D1693C
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	> 60		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield	> 21.6	MPa	
Break	> 29.4	MPa	
Tensile Elongation (Break)	> 1200	%	ASTM D638
Impact	**Nominal Value**	**Unit**	**Test Method**
Impact Resistance	> 100	J/cm	ISO 21809-1
Head Temperature	210 to 230	°C	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	< -40.0	°C	ASTM D746
Vicat Softening Temperature	140	°C	ASTM D1525
Melting Temperature	> 160	°C	ASTM D2117
Extrusion	**Nominal Value**	**Unit**	
Cylinder Zone 1 Temp.	190 to 220	°C	
Cylinder Zone 3 Temp.	190 to 220	°C	
Cylinder Zone 5 Temp.	190 to 220	°C	
Melt Temperature	220 to 240	°C	
Die Temperature	210 to 230	°C	
NOTE			
1.	23°C		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China


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