

Microthene® RL

MR SP010

Melt Bonding Polyethylene Powder (Black) Rotolining and Powder Coating Grade Melt Index 5.5 Density 0.939

Applications

MICROTHENE MR SP010 is a modified thermoplastic polyethylene-based rotolining and powder coating resin, available as a 35-mesh powder containing carbon black. MR SP010 offers exceptional stress crack resistance and excellent adhesion to metals and selected polymers. Typical applications include linings and coatings for pipes, drums, hollow vessels and irregularly shaped parts. MR SP010 provides resistance to a wide range of chemicals and is designed for applications requiring corrosion resistance, insulation or abrasion and impact resistance.

Processing Techniques

Application methods include rotational lining, co-rotational lining, powder spray and fluidized bed coating. A melt temperature of 450° to 550°F is recommended for processing MR SP010. However, optimum bonding is a function of temperature, time and method of application. More specific suggestions can be made only when the lining/coating substrate, processing equipment, conditions and end uses are known. For further information, please contact your Equistar sales representative.

Physical Properties

Property	Nominal Value	Units	ASTM Test Method
Melt Index	5.5	g/10 min	D 1238
Density	0.939	g/cc	D 1505
Tensile Strength @ Yield, 2"/min *	1,760 (12.1)	psi (MPa)	D 638
Elongation, Ultimate, 2"/min *	>900	%	D 638
Heat Distortion Temperature @66 psi	122 (50)	°F (°C)	D 648
@264 psi	97 (36)	°F (°C)	D 648
Environmental Stress Crack Resistance, F ₅₀			
100% Igepal®	>1,000	hrs	D 1693
10% Igepal®	>1,000	hrs	D 1693
Flexural Modulus, 1% Secant	71,000 (490)	psi (MPa)	D 790
Low Temperature Impact			
1/8" specimen	50	ft-lbs	ARM STD
1/4" specimen	>150	ft-lbs	-40 °F Impact

* Type IV specimen

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Equistar Chemicals, LP
1221 McKinney, Suite 700
P.O. Box 2583
Houston, Texas 77252-2583
(800) 615-8999



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