

DATE: 2024-2025

Arena Code: AS10364/ASPC-MFI 3313

Producer and Supplier in the fields of Chemical, Oil, Gas and Petrochemical industries

Technical Data Sheet

MFI 3313

Medium Density Polyethylene

MFI3313 is a medium density polyethylene, which has a broad molecular weight distribution and high melt strength.

This product specially designed for producing thin films with high tear resistance, good seal ability, high strength and high draw down. This product is suitable for manufacture of high strength carrier bags and high quality thin films for uni/multi-wall packaging. MFI3313 has been manufactured under Basell license.

Application:

Blown film extrusion, uni/multi wall packaging, high quality thin films, high strength carrier bags





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Typical Properties	Typical Value ¹	Units	Test Method
Physical			
High Load Melt Flow Index(190°C/21.6kg)	13	g/10 min	ISO 1133
Density ²	0.933	gr/cm3	ISO 1183
Mechanical ³			
Tensile Modulus at Elasticity	620	MPa	ISO527-1;2
Tensile Strength (MD)	55	MPa	ISO527-1;3
Tensile Strength (TD)	43	MPa	ISO527-1;3
Tensile Strain at Break (MD)	600	%	ISO527-1;3
Tensile Strain at Break (TD)	600	%	ISO527-1;3
Elmendorf Tear Strength (MD)	330	mN	ISO 6383-2
Elmendorf Tear Strength (TD)	2000	mN	ISO 6383-2
Failure Energy	8.5	J/mm	DIN 53373
Dart Drop Impact	160	g	ASTM D1709
hermal Properties			1
Melting Temperature	124	°C	ISO 3146
Vicat Softening Temperature (Method A/ 10N)	116	°C	ISO 306
Recommended Process Conditions ⁴			
Extruder Barrel Temperature: 190-235 °C	Blow up ratio:3-5		
Film thickness: 10-50 μm			

- 1. Typical values: these are not to be construed as specifications.
- 2. The density parameter was determined on compression-molded specimens, which were prepared in accordance with procedure C of ASTM D4703, Annex A1.
- 3. Properties are based on 20 μ m blown film produced at a melt temperature of 220°C and 4 BUR using 100% MFI3313 resin. Modulus property is based on compression-molded specimens, which were prepared in accordance with procedure B of ASTM D4703, Annex A1.
- 4. Please note that, these processing conditions are recommended by manufacturer only for 100% MFI3313 resin (not in the case of blending with any other compatible material), therefore because of the many particular factors which are outside our current knowledge and control and may affect the use of product, no warranty is given for the foregoing data. Moreover, the specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.



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