



TECHNICAL DATA SHEET

PolyLink FT-839BK

Hexene Co-polymer Based LMDPE Rotational Moulding Powder

PRODUCT DESCRIPTION

PolyLink FT-839BK polyethylene resin is a hexene co-polymer based Linear Medium Density Polyethylene designed for Diesel Fuel Tanks. This grade provides excellent stiffness and a good balance between impact strength and environmental stress cracking resistance.

FT-839BK contains a fully formulated UV stabilization package.

FT-839BK is available in black colour.

PROPERTY	TEST METHOD ¹	UNIT	TYPICAL VALUE ²
Density	ASTM D 1505	g/cm ³	0.938
Melt Flow Index (MFI) ³	ASTM D 1238	g/10 min	3.2
Tensile Strength Yield	ASTM D 638	MPa	21
Elongation at Break	ASTM D 638	%	1000
Flexural Modulus ⁵	ASTM D 790	MPa	760
Impact Strength (4.0 mm) ⁶	ARM	ft.lbs	110
ESCR F ₅₀ ⁷ (100% IGEPAL)	ASTM D 1693	h (F50)	>1000

DENSITY 0.938

MELT INDEX 3.2

KEY FEATURES

Good ESCR
Good balance between impact strength and stiffness
Easy Processing
Base resin approved by TÜV for use in Diesel Fuel Tanks

TYPICAL APPLICATIONS

Diesel Fuel Tanks

¹ Properties designated have been determined using methods which are in accordance with the specified testing standards.

² Typical Values represent average laboratory values for the base resin and are intended as guides only, not as specifications.

³ Condition 190°C/2.16 kg.

⁴ ASTM Type 1, 50 mm per minute test speed, 4.0 mm thickness rotomoulded samples.

⁵ 2% Secant using rotomoulded samples. (SPEED?)

⁶ -40°C on rotomoulded samples.

⁷ Condition A, 50°C, F50 values using rotomoulded specimens.

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