



PolymerLink

## TECHNICAL DATA SHEET

# PolyLink FT-834BK-ER

Hexene Co-polymer Based Linear Low Density Polyethylene Powder

### PRODUCT DESCRIPTION

PolyLink FT-834BK-ER polyethylene resin is a hexene co-polymer based Linear Low-Density Polyethylene designed for Diesel Fuel Tanks. This are UV8 resistance which provide excellent stiffness and good balance between impact strength and environmental stress cracking resistance. FT-834BK-ER is available in black colour.

PROPERTY	TEST METHOD <sup>1</sup>	UNIT	TYPICAL VALUE <sup>2</sup>
Density	ASTM D 1505	g/cm <sup>3</sup>	0.938
Melt Flow Index (MFI) <sup>3</sup>	ASTM D 1238	g/10 min	4.0
Tensile Strength Yield	ASTM D 638	MPa	20
Elongation at Break	ASTM D 638	%	950
Flexural Modulus <sup>5</sup>	ASTM D 790	MPa	750
Impact Strength (4.0 mm) <sup>6</sup>	ARM	ft.lbs	110
ESCR F <sub>50</sub> <sup>7</sup> (100% IGEPAL)	ASTM D 1693	h (F50)	>500

DENSITY 0.938

MELT INDEX 4.0

### 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  
Outdoor Storage Container  
Chemical Tanks

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

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

<sup>3</sup> Condition 190°C/2.16 kg.

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

<sup>5</sup> 2% Secant using rotomoulded samples. (SPEED?)

<sup>6</sup> -40°C on rotomoulded samples.

<sup>7</sup> Condition A, 50°C, F50 values using rotomoulded specimens.

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POLYMERLINK INDIA PVT. LTD

[sales@polymerlink.in](mailto:sales@polymerlink.in) / +91 9137628080

Polymer Link Sdn. Bhd., Malaysia  
Email: [info.my@polymerlink.net](mailto:info.my@polymerlink.net)

Polymer Link Philippines Inc., Philippines  
Email: [info.ph@polymerlink.net](mailto:info.ph@polymerlink.net)

PolymerLink India Pvt. Ltd., India  
Email: [info.in@polymerlink.net](mailto:info.in@polymerlink.net)