

Technical Data Sheet

*Circulen*Recover HD45U06 Natural

High Density Polyethylene

Product Description

*Circulen*Recover HD45U06 Natural is a circular polymer supplied in pellet form for industrial packaging applications.

Sustainability:

According with the requirements of Standard ISO 14021:2016, *Circulen*Recover HD45U06 Natural contains at least 40% of post-consumer HDPE from pre-sorted plastic packaging waste. The source of the post-consumer HDPE is based on re-collected industrial packaging applications.

This product is not intended for highly regulated applications including food contact, potable water contact, medical and pharmaceutical applications. It is intended to be used for regulated applications as e.g., for UN approved industrial packaging.

Market	Industrial Packaging
Processing Method	Extrusion Blow Molding
Attribute	Antioxidant; High ESCR (Environmental Stress Cracking Resistance); High Impact Resistance

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/21.6 kg)	6.0	g/10 min	ISO 1133-1
Density	0.945	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	850	MPa	ISO 527-1, -2
Tensile Stress at Yield	24	MPa	ISO 527-1, -2
Impact			
Tensile Impact Strength	150	kJ/m ²	ISO 8256
Note: notched, type 1, method A, -30 °C			
Thermal			
Vicat Softening Temperature, (A/50)	125	°C	ISO 306
Peak Melting Point	131	°C	ISO 11357-3
Processing Parameters			
Melt Temperature	180 - 240	°C	