

TECHNICAL DATASHEET

HDPE Q453U

PRODUCT DESCRIPTION

High Density Polyethylene (HDPE) Resin with UV stabilizer for Injection Moulding

Q453U is a hexene based HDPE injection moulding resin designed for toughness and good impact strength. Q453U offers excellent stiffness-toughness balance ideally recommended for applications requiring physical performance and a good impact.

NOMINAL PHYSICAL PROPERTIES:

PROPERTIES	ASTM TEST METHOD	UNIT	VALUE
TYPICAL RESIN PROPERTIES FOR Q453U:			
Density	D1505	g/cm ³	0.953
Melt Index (190°C/2.16kg)	D1238	g/10 min	4.0
Tensile Strength at Yield	D638	MPa	28
Tensile Yield Elongation	D638	%	10
Flexural Modulus (2% Secant)	D790B	MPa	1172
Environmental Stress Crack Resistance (100% Igepal, 50°C, F50)	D1693	hr	20
Deflection Temperature Under Load (66psi)	D648	°C	77
Shore Hardness (Shore D)	D2240	-	68
Vicat Softening Temperature	D1525	°C	128

SUGGESTED APPLICATIONS:

Industrial Components
Waste Carts

Industrial Closures
Recreational Vehicle Components

Automotive Components

NOTE:

All properties were derived from compression moulded specimens. Actual properties may vary depending on operating conditions and additive packages. Properties are not intended to be used as specifications.

HDPE

HIGH DENSITY
POLYETHYLENE
Q453U