



CLEARFLEX® H&T

X-PE

RBH 58 Y

CROSSLINKABLE POLYETHYLENE

Clearflex H&T RBH 58 is a cross-linkable high density polyethylene, with antioxidants, UV stabilizers and yellow coloration, suitable for rotomolding applications.

The resin shows high toughness, excellent elongation at break and ESCR.

Main application

Thanks to its overall performances, Clearflex H&T RBH 58 Y is highly recommended for production of industrial and agricultural chemical storage tanks, automotive fuel tanks and many other items where stress cracking and impact resistance are required.

Main Properties

Resin properties	Value	Unit	Test Method
Melt Flow Rate (190 °C/2.16 kg)	N/A	g/10min	ISO 1133
Density	0.945	g/cm ³	ISO 1183
UV absorber	1500	ppm	internal

Mechanical **	Value	Unit	Test Method
Tensile Strength at yield	21	MPa	ISO527-3
Elongation at break	>250	%	ISO 527-3
Flexural modulus	700	MPa	ISO 178
Falling Weight	-	J/mm	ISO 6603/2
Heat Deflection Temperature (HDT)	65	°C	ISO 180/A
ESCR ***	>1000	h	ASTM 1693/B

(**) Values are referred to rotationally molded samples.

(***) 100% surface-active agent – Condition B.

Processing note

Clearflex H&T RBH 58 Y can be processed by rotomoulding technology using all machinery types. This material, when properly converted, allows obtaining finished items having good surface. Suggested temperature range to obtain such results is from 230°C to 280°C, depending on the residence time in the oven.

Storage and handling

Clearflex H&T RBH 58 Y should be stored in dry conditions, well ventilated in its original packaging. It's recommended to avoid prolonged storage under extreme temperatures and direct UV-light radiation. Improper storage can initiate degradation which can have negative effects on the physical properties of the product. Please refer to Safety Data Sheet for further information.

Availability

Contact the versalis sales office nearest to you regarding availability and your specific application requirements.

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