

TECHNICAL DATASHEET

R50035



PRODUCT DESCRIPTION

R50035 are linear low density polyethylene grade with balanced density and viscosity designed to provide excellent stress cracking resistance, good mechanical properties with high rigidity, toughness, and low warpage. R50035 : Non-UV stabilized grade in pellet form

TRPICAL APPLICATION

Rotational molding of water tanks, industrial and agricultural tanks and containers. General purpose rotomolding articles where easy processing is required.

TYPICAL DATA

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate @ 190°C & 2.16 kg load (1)	5	g/10 min	ASTM D 1238
Density (1)	935	kg/m ³	ASTM D1505
MECHANICAL PROPERTIES			
Tensile Strength at Break (2)	17	MPa	ASTM D638
Tensile Elongation at Break (2)	590	%	ASTM D638
Tensile Strength at Yield (2)	16	MPa	ASTM D638
1% Secant Modulus (2)	420	MPa	ASTM D638
Flexural Strength (2)	13	MPa	ASTM D790
Hardness (Shore D) (2)	66	-	ASTM D2240
ESCR (100% Igepal), F50 (2)	>	hrs	ASTM D1693B
THERMAL PROPERTIES			
Vicat Softening Point	114	°C	ASTM D 1525
Brittleness temperature	< -75	°C	ASTM D746