

SABIC

LLDPE

R50035

Product information				
Manufacturer		Saudi Basic Industry Corporation		
Material Shape		Pellets		
Process		Roll forming		
Features		Good mechanical propertiesHigh stiffnessHigh toughnessLow warpageStress crack resistanceGood processability		
Application		Industrial tanksTanksContainersAgricultural tanksGeneral purposeRotational molding applications		
Hardness	Condition	Standard	Value	Unit
Shore	Hardness D	ASTM D2240	66	
Mechanical behavior	Condition	Standard	Value	Unit
Elongation	Break	ASTM D638	590	%
Flexural	Strength	ASTM D790	13	MPa
Tensile	Modulus 1% Secant	ASTM D638	420	MPa
Tensile	Strength Break	ASTM D638	17	MPa
Tensile	Strength Yield	ASTM D638	16	MPa
Physical property	Condition	Standard	Value	Unit
Density		ASTM D1505	935	kg/m³
Environmental	Stress Crack Resistance F50 100%Igepal	ASTM D1693	150	hr
Melt	Index 190°C 2.16kg	ASTM D1238	5	g/10min
Thermal	Condition	Standard	Value	Unit
Low	Temperature Brittleness	ASTM D746	-75.0	°C
Vicat	Softening Temperature	ASTM D1525	114	°C