SABIC® HDPE M40053S

High Density Polyethylene Copolymer Saudi Basic Industries Corporation (SABIC)

Message:

M40053S is UV stabilized High Density Polyethylene grade with narrow molecular weight distribution suitable for injection molding applications. It has been designed to provide good balance of stiffness and impact at low temperatures and is also having good weatherability and surface properties. M40053S is specially developed for high demanding dust bin market, shipping containers for low temperature storage, industrial pails etc.

General Information				
Additive	UV stabilizer			
Features	Rigid, good			
	Low temperature impact resistance			
	Good weather resistance			
	Compliance of Food Exposure			
	Excellent appearance			
	Narrow molecular weight distribution			
Uses	Industrial application			
	Container			
	Barrel			
	Shipping container			
Forms	Particle			
Processing Method	Injection molding			
Physical	Nominal Value	Unit	Test Method	
Density	0.953	g/cm³	ASTM D1505	
Melt Mass-Flow Rate (MFR) (190°C/2.16				
kg)	4.0	g/10 min	ASTM D1238	
Environmental Stress-Cracking Resistance			ASTM D1693B	
10% Igepal, molded, F50	4.00	hr	ASTM D1693B	
100% Igepal, molded, F50	7.00	hr	ASTM D1693B	
Hardness	Nominal Value	Unit	Test Method	
Durometer Hardness (Shore D, Injection Molded)	60		ASTM D2240	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus - 1% Secant (Injection Molded)	900	MPa	ASTM D638	
Tensile Strength			ASTM D638	
	23.0	MPa	ASTM D638	
Yield, injection molding				
Yield, injection molding Fracture, injection molding	21.0	MPa	ASTM D638	

Flexural Modulus (Injection Molded)	800	MPa	ASTM D790
Flexural Strength (Injection Molded)	21.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Injection Molded)	150	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	125	°C	ASTM D1525
Injection	Nominal Value	Unit	
Rear Temperature	232 - 260	°C	
Middle Temperature	232 - 260	°C	
Front Temperature	232 - 260	°C	
Mold Temperature	15.0 - 60.0	°C	
Injection Pressure	60.0 - 100	MPa	

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