

Jamplast JPHDPEHMW

High Density (HMW) Polyethylene

Jamplast, Inc.

Message:

JPHDPEHMW is a high molecular weight, high density polyethylene copolymer. This resin has superior stress crack resistance, high impact strength and good rigidity.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Copolymer		
	Food Contact Acceptable		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
	High Molecular Weight		
	Medium Rigidity		
Uses	Automotive Applications		
	Blow Molding Applications		
	Fuel Tanks		
	Sheet		
Forms	Pellets		
Processing Method	Blow Molding		
	Sheet Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	0.949	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.10	g/10 min	
190°C/21.6 kg	10	g/10 min	
Environmental Stress-Cracking Resistance (100% Igepal, Compression Molded)	800	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C, Compression Molded)	26.2	MPa	ASTM D638
Tensile Elongation (Break, 23°C, Compression Molded)	1000	%	ASTM D638
Flexural Modulus - Tangent ¹ (23°C, 3.18 mm, Compression Molded)	1240	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method

Tensile Impact Strength			ASTM D1822
-40°C, Compression Molded	210	kJ/m ²	
23°C, Compression Molded	252	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	71.1	°C	ASTM D648
Brittleness Temperature	-76.1	°C	ASTM D746
Vicat Softening Temperature	121	°C	ASTM D1525
CLTE - Flow	1.2E-4	cm/cm/°C	ASTM D696
NOTE			
1.	Method I (3 point load)		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
 Phone: +86 13424755533
 Email: sales@su-jiao.com
 No. 215, Lianhe North Road, Fengxian District, Shanghai, China

