

Paxon™ BZ45-060

High Density Polyethylene Resin

Product Description

Paxon™ BZ45-060 is a high molecular weight high density polyethylene copolymer which contains an UV inhibitor. It provides a combination of excellent processability, outstanding melt strength, high impact strength, chemical resistance and high stress cracking resistance.

General

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| Additive | ▪ UV Stabilizer |
| Applications | ▪ Intermediate Bulk Containers |

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.946 g/cm ³	0.946 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	< 0.10 g/10 min	< 0.10 g/10 min	ASTM D1238
High Load Melt Index (190°C/21.6 kg)	6.3 g/10 min	6.3 g/10 min	ASTM D1238

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	148 °F	65 °C	ASTM D648

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield	3500 psi	24 MPa	ASTM D638
Flexural Modulus - 1% Secant (0.050 in/min (1.3 mm/min))	120000 psi	820 MPa	ASTM D790
Environmental Stress-Crack Resistance 100% Igepal	> 1000 hr	> 1000 hr	ASTM D1693
Durometer Hardness (Shore D, 15 sec)	53	53	ASTM D2240

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Charpy Notched Impact Strength -4°F (-20°C)	8.9 ft·lb/in ²	19 kJ/m ²	ISO 179/1eA
73°F (23°C)	12 ft·lb/in ²	25 kJ/m ²	

