

# POLYVOLVE

## SUSTAINABLE POLYPROPYLENE PV3.0

PV3.0 is a medium flow narrow molecular weight distribution polypropylene impact co-polymer compound.

### INJECTION MOULDING

PV3.0 is a general purpose injection moulding grade suitable for applications where toughness, even at low temperatures, is required.

### TYPICAL APPLICATIONS ARE:

- Buckets / pails
- Drainage products (plumbing)
- Crates and containers
- Household and domestic articles

CARBON FOOTPRINT

A++

A+

A

B

C



### TYPICAL VALUES (NOT TO BE CONSTRUED AS SPECIFICATIONS)

### VALUE

### UNIT

### TEST METHOD

#### RHEOLOGICAL PROPERTIES

Melt mass-flow rate – MFR (230/2.16)  
Mould Shrinkage - SMp / SMn

15  
15

g/10min  
%

ISO 1133  
ISO 294-4

#### MECHANICAL PROPERTIES

Tensile Modulus of Elasticity  
Tensile Stress at Yield  
Tensile Strain at Yield  
Tensile Strain at Break  
Flexural Modulus  
Flexural Strength  
Charpy Notched Impact Strength (23°C)  
Charpy Notched Impact Strength (0°C)  
Charpy Notched Impact Strength (-20°C)  
Ball Indentation Hardness – HB

1500  
1500  
1500  
1500  
1500  
1500  
1500  
1500  
1500  
1500

MPa  
MPa  
%  
%  
MPa  
-  
KJ/m<sup>2</sup>  
KJ/m<sup>2</sup>  
KJ/m<sup>2</sup>  
N/mm<sup>2</sup>

ISO 527-2/1A/1  
ISO 527-2/1A/50  
ISO 527-2/1A/50  
ISO 527-2/1A/50  
ISO 178  
ISO 178  
ISO 179-1/1eA  
ISO 179-1/1eA  
ISO 179-1/1eA  
ISO 2039-1

#### THERMAL PROPERTIES

Melting Temperature – DSC  
Heat Deflection Temperature – HDT/A (1.8MPa)  
Heat Deflection Temperature – HDT/B (0.45MPa)  
Vicat Softening Temperature – VST/A 120 (10N)  
Vicat Softening Temperature – VST/B 120 (50N)

150  
150  
150  
150  
150

°C  
°C  
°C  
°C  
°C

ISO 11357-3  
ISO 75-2  
ISO 75-2  
ISO 306  
ISO 306

#### OTHER PROPERTIES

Density

15

g/cm<sup>3</sup>

ISO 1183-1

#### PROCESS TEMPERATURES

Nozzle  
Zone 4-1  
Hopper

150  
150  
150

°C  
°C  
°C

This information is based on our current knowledge and experience. In view of the many factors that may affect processing and application, this data does not relieve processors from the responsibility of carrying out their own tests and experiments; neither does it imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.